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Vascular Plants of the Black Hills of South Dakota and Adjacent Wyoming

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ABSTRACT

This checklist gives the scientific name and botanical authority, the plant family (and tribe for Gramineae and Compositae), an alphabetical symbol adapted for computer coding, and a life-form designation for 1,759 plant taxa of the Black Hills of South Dakota and Wyoming. Listing is alphabetical: by genera, by species within genera, and by variety or subspecies within species. A discussion of the environment and vegetation types of the Black Hills is included.

KEY WORDS: Vascular system (plants), vegetation

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20
Vascular Plants of the Black Hills of
South Dakota and Adjacent Wyoming

by
John F. Thilenius
Plant Ecologist

Rocky Mountain Forest and Range Experiment Station¹

¹Central headquarters maintained in cooperation with Colorado State University at Fort Collins; research reported here was conducted in cooperation with South Dakota School of Mines and Technology at Rapid City. Author is now located at Laramie, in cooperation with the University of Wyoming.

Contents

	Page
Introduction	1
Botanical References Consulted	1
Environment and Vegetation Types of the Black Hills	2
Symbols for Family and Tribe	5
Alphabetical List of the Vascular Plants of the Black Hills	7

Vascular Plants of the Black Hills of South Dakota and Adjacent Wyoming

John F. Thilenius

Introduction

This checklist of the vascular plants of the Black Hills of South Dakota and immediately adjacent Wyoming is a revision of the checklist published by A. C. McIntosh (1949). Major changes are: (1) revision of the nomenclature to a currently more acceptable system, (2) reduction of synonymy, (3) inclusion of new taxa reported by various workers, (4) incorporation of an alphabetical plant symbol code, and (5) inclusion of life-form classes.

Taxa are arranged alphabetically by genera, and then alphabetically by species within genera. Varieties or subspecies follow species.

For each taxon the appropriate alphabetical plant symbol is given, followed by the scientific name of the genera and species and the authority; an alphabetical symbol for the scientific name of the family (and tribe for the Graminae and Compositae); and a life-form symbol.

Alphabetical symbols have been determined as follows: For genera, the first five letters of the generic name; for species, the first two letters of the genus name and the first two letters of the species name (subspecies and varieties are indicated by including the first letter of the subspecific or varietal name in the symbol); for family, the first six letters of the family name (tribes are indicated by the parenthetical insertion of a three-letter symbol composed of the first three letters of the tribal name after the family symbol). Where symbols are duplicated, a number (starting with 2) is used as part of the symbol. Only capital letters are used for symbols.

Five life-form classes are included: (1) L = Peridophyta; (2) G = Graminoids: Graminae, Cyperaceae, and Juncaceae; (3) F = Forbs: all other herbaceous plants; (4) S = Shrubs: woody, usually multi-stemmed, perennial plants generally under 10 feet tall when mature; (5) T = Trees: woody, perennial plants, usually

with an elongated, single, central stem, and generally over 10 feet tall when mature.

Wherever possible, nomenclature follows the **New Britton and Brown Illustrated Flora** (1963 edition) except for Graminae, which follow the **Manual of Grasses of the United States** (1950). All references used are listed under Botanical References Consulted.

Common names have not been incorporated in the list; the reader is referred to **Standardized Plant Names** (1942, 2d edition) for them.

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2. The **Red Valley**—which lies between the Hog-back and the main mass of the Hills and has soils of very reddish hue, which are also high in gypsum.
3. The **Limestone Plateau**—another encircling formation, most extensive in the northwestern portion and along the western edge of the Hills.
4. The **Central Area**—a highly dissected region of metamorphic material which forms the core of the Black Hills.
5. The **Granite Spires**—an isolated, intrusive massif of extremely steep spires and cliffs, in the south-central Black Hills. The highest elevation in the Black Hills, Harney Peak (7,242 feet) occurs here.
6. The **Igneous Cones**—which intrude through the Limestone Plateau and Central Area along the northern edge of the Black Hills.

Annual precipitation in the Black Hills ranges from 28 inches at high elevations on the northwestern Limestone Plateau to less than 16 inches in the surrounding foothills. June is the wettest month. Snowfall on the Limestone Plateau averages over 110 inches a year. Temperatures vary with location and elevation. Table 1 summarizes climatic data for five selected stations in the Black Hills. Temperature inversions are common during the winter; the temperature at 5,000 feet may be over 20° F. warmer than at 3,000 feet. These inversions are often accompanied by strong chinook winds.

While the flora of the Black Hills region is rich in species, there are relatively few vegetation types. An outline of the more important vegetation includes:

- I. Coniferous forest or woodland types
 - A. Major extent
 1. *Pinus ponderosa* forest
 - B. Moderate extent
 1. *Picea glauca* forest
 2. *Juniperus scopulorum* woodland
 - C. Minor extent
 1. *Pinus contorta* var. *latifolia* forest
 2. *Pinus flexilis* forest
- II. Deciduous forest or woodland types
 - A. Major extent
 1. *Populus tremuloides* - *Betula papyrifera* forest
 - B. Moderate extent
 1. *Quercus macrocarpa* woodland
 2. *Acer negundo* - *Fraxinus pennsylvanica* riparian woodland
- III. Shrub types
 - A. Major extent
 1. *Cercocarpus montanus* shrubland

Environment and Vegetation Types of the Black Hills

The elliptically shaped mass of the Black Hills covers an area of over 2,900 square miles in extreme western South Dakota and eastern Wyoming. Physiographically, this area is an islandlike uplifted dome which declines in general elevation from northwest to southeast. The drainage pattern is radial-dendritic, but the majority of the permanent streams flow eastward. Although there are no natural lakes in the Black Hills, three manmade impoundments of several hundred acres have been constructed, and there are many smaller artificial lakes and ponds.

The most conspicuous topographic features of the Black Hills are:

1. The **Hog-back Ridge**—a single ridge of hard sandstone, encircling the periphery of the Hills.

Table 1.--Climatic data for the Black Hills region

Station	Location	Elevation	Precipitation			Temperature			Growing season
			Max.	Min.	\bar{x}	Max.	Min.	\bar{x}	
		Feet	Inches			°F.			Days
Lead	North	5152	40.1	12.8	23.8	101	-40	44	129
Rapid City	East	3259	27.7	7.5	17.5	106	-34	47	154
Hot Springs	South	3426	32.0	8.6	18.4	112	-31	48	142
Newcastle	West	4317	23.9	9.2	12.9	108	-37	46	136
Custer	Central	5309	27.9	9.3	18.5	96	-31	41	NA

B. Minor extent

1. *Artemisia tridentata* shrubland
2. *Symphoricarpos occidentalis* meadow
3. *Salix bebbiana* riparian shrubland
4. *Ceanothus velutinus* shrubland (old forest fire burns)

IV. Grassland types

A. Major extent

1. *Andropogon scoparius* bunchgrass prairie
2. *Agropyron smithii* - *Stipa comata* mid-grass prairie
3. *Bouteloua gracilis* - *Buchloe dactyloides* short-grass prairie
4. *Poa pratensis* meadow

B. Minor extent

1. *Carex* - *Juncus* meadow

These vegetation types have all been disturbed to some extent. Logging, mining, livestock grazing, fire, protection from fire, or a combination of these influences are common throughout the Black Hills. Thus, all types are in seral condition, and the assignment of a successional status rating such as "climax" to any of them would be highly subjective and not particularly relevant. Furthermore, although distinct examples of these vegetation types are present, many of them intergrade. The intergrades may be caused by intergrades in effective environment, by succession, or both.

Pinus ponderosa forest is the most common vegetation type in the Black Hills. About 95 percent of the forested area is dominated by this species, and the general appearance

of the Black Hills is of a monoculture of this species. There is a great deal of variation in the *Pinus ponderosa* forest, however, especially in the understory. Some of the more important subtypes are given below. The species listed are the dominants in the tree, shrub, and herb strata.

1. *Pinus ponderosa/Andropogon scoparius*—Common in the southern Black Hills and on exposed, rocky, south-facing slopes at lower elevations in the Central Area. *Yucca glauca*, *Artemisia frigida*, *Amorpha canescens*, *Leucocrinum montanum*, *Stipa* spp., and *Bouteloua* spp. are common associated species.
2. *Pinus ponderosa/Arctostaphylos uva-ursi*—The dominant vegetation in the Central Area; occurs on a variety of exposures and sites. *Symphoricarpos albus*, *Rosa fendleri*, *Danthonia intermedia*, *Carex concinna*, and *Oryzopsis* sp. are also abundant.
3. *Pinus ponderosa/Symphoricarpos occidentalis*—Occurs on deeper soils, especially on the ecotone between forest and meadow, in the Central Area.
4. *Pinus ponderosa/Juniperus communis/Berberis repens*—The dominant forest type at higher elevations (+6,000 feet) on the northwestern Limestone Plateau. *Sheperdia canadensis*, *Bromus pumpellianus*, *Elymus glauca*, and *Trifolium* spp. are the more common associates.
5. *Pinus ponderosa/Quercus macrocarpa*—Best developed at low to moderate elevation (4,000-5,000 feet) in the northern Black Hills. Associated species are *Prunus virginiana*, *Berberis repens*, and *Schizachne purpurascens*.

6. *Pinus ponderosa/Cercocarpus montanus*—Occurs on the western edge of the Black Hills. Intergrades into *Cercocarpus montanus* shrubland at lower elevations. Confined to calcareous parent materials. *Ribes* spp., *Rhus trilobata*, and *Andropogon* spp. are also present.

Picea glauca forest is found as a dominant type in the most mesic sites in the Black Hills. It is best developed on north-facing slopes at high elevation in the northern Limestone Plateau, and on the Igneous Cones that intrude through the Limestone Plateau. Relatively extensive stands also occur in the Granite Spires region and along streams in the Central Area. *Vaccinium scoparium*, *Juniperus communis*, *Goodyera decipiens*, and *Chimaphila umbellata* are common, but the understory is, in general, rather sparse.

The *Juniperus scopulorum* woodland type is best developed in the southern Black Hills and on river breaks in the northern Great Plains to the east of the Black Hills. *Pinus ponderosa* is often an overstory codominant. *Ribes* spp. and *Rhus trilobata* are important shrubs. The herb layer has distinct prairie affinities. *Stipa* spp., *Bouteloua gracilis*, and *B. curtipendula* are common.

The *Pinus contorta* var. *latifolia* forest type is represented by a single stand of approximately 90 acres in the Central Area. This stand is apparently of natural origin because it includes trees over 100 years of age. The closest stands of *P. contorta* var. *latifolia* are in the Big Horn Mountains of Wyoming over 200 miles to the west.

The *Pinus flexilis* forest type is similarly represented by a single stand, but it is only about 5 acres in area. The stand is in the Granite Spires at an elevation of 6,600 to 6,800 feet. The closest stands of *P. flexilis* are in the Big Horn Mountains and in the Little Missouri Badlands of North Dakota.

Populus tremuloides-Betula papyrifera forests are found on a variety of sites. Old forest burns, especially in the northwestern Black Hills, often are dominated by this vegetation. The understory in this type is very rich in species. *Corylus cornuta*, *Prunus virginiana*, *Rosa suffulta*, *Rubus parviflorus*, *Pteridium aquilinum*, *Actaea arguta*, and a large variety of mesophylllic grasses and forbs are abundant.

Woodlands dominated by *Quercus macrocarpa* occur along the northeastern foothills of the Black Hills and on more xeric slopes at moderate elevation in the northern portion

of the Black Hills. This type has affinities with the eastern deciduous forest. The majority of the stands are grazed heavily by livestock. Important associated species are *Ostrya virginiana*, *Rhus glabra*, *Toxicodendron radicans*, and *Symporicarpos occidentalis*. *Poa pratensis* is the most abundant grass.

Acer negundo-Fraxinus pennsylvanica woodland is a riparian type found at moderate elevation in the eastern Black Hills and along river courses in the prairie to the east. Common associates are *Ulmus americana*, *Populus* spp., *Salix* spp., and *Ostrya virginiana*.

True shrubland vegetation in the Black Hills is limited, although some tree species (*Quercus macrocarpa*, *Populus tremuloides*) also grow as shrubs, especially in old forest burns. However, shrubland dominated by *Cercocarpus montanus* is present along the western edge of the Black Hills, and extends to the south and east. At lower elevations, *Cercocarpus montanus* has an open distribution and individual shrubs are seldom more than 4 feet tall. At higher elevations, the shrubs exceed 10 feet in height and form very dense thickets. Associated shrub species are *Ribes* spp., *Rhus trilobata*, and *Juniperus scopulorum*. The herbaceous stratum is dominated by prairie species: *Bouteloua* spp., *Calamovilfa longifolia*, and *Andropogon gerardii* are the most common species.

An *Artemisia tridentata* shrubland type occurs on lowlands to the west and south of the Black Hills. Several other species of *Artemisia* are also present: *A. cana*, *A. filifolia*, and *A. frigida* are the most common of these. *Chrysothamnus nauseosus* is abundant on eroded sites.

The *Symporicarpos occidentalis* shrubland type is found on alluvial benches along stream courses, and on degraded meadows in the Central Area. *Poa pratensis* is the herb stratum dominant in this type. *Achillea millefolium*, *Ago-seris* spp., and *Trifolium* spp. are additional important components of the herb stratum.

A *Ceanothus velutinus* shrubland type is present on old forest burns in the Igneous Cone area of the northern Hills. *Ceanothus* also occurs under the *Pinus ponderosa* canopy on unburned sites in this region.

A riparian shrub type dominated by *Salix bebbiana* was formerly much more abundant in the Black Hills, but is now badly decimated by overgrazing, changes in water level, and the willow borer (*Sternocetus lapathi*). Additional important components are *Cornus stolonifera*, *Betula glandulosa*, *Carex nebrascensis*, and *Juncus* spp.

Grassland vegetation in the Black Hills can be subdivided into two major divisions based on effective moisture. The drier parts of the southern Hills support a bunchgrass vegetation dominated by *Andropogon scoparius*. This type also occurs on exposed south- and west-facing slopes and balds in the Central Area, where it intergrades into the *Pinus ponderosa/Andropogon scoparius* subtype previously mentioned. Additional component species are similar in these two vegetation types.

The mid-grasses, *Agropyron smithii* and *Stipa* spp., dominate extensive grasslands in the southern Black Hills. Other important species in this grassland are *Artemisia frigida* and *Bouteloua* spp.

Short-grass prairie dominated by *Bouteloua gracilis* and *Buchloe dactyloides* occurs intermixed with the *Agropyron-Stipa* mid-grass type, possibly as a result of overgrazing. *Opuntia* spp. are also common here, as are *Artemisia frigida* and *Bromus japonicus*.

Extensive meadows on the Limestone Plateau in the northern Black Hills are in general composed of more mesophytic species than those in southern Black Hills, but prairie species do occur. In the higher areas of the

Limestone Plateau, meadows dominated by *Poa pratensis* occupy concave relief areas bordering watercourses. The present dominance of *Poa pratensis* may be the result of past overgrazing by livestock. Associated grasses are *Phleum pratense*, *Bromus* spp., *Stipa* spp., *Agropyron* spp., and *Elymus* spp. In the summer, a great variety of flowering forbs are evident. Among these are *Calochortus nuttallii*, *Castilleja* spp., *Zygadenus gramineus*, *Comandra pallida*, *Solidago* spp., and many *Compositae* (particularly *Rudbeckia* spp., *Agoseris* spp., and *Helianthus* spp.). The ecotone between this grassland type and the surrounding forest is often dominated by the calciphyllic shrub, *Potentilla fruticosa*.

Sedge meadow grassland is not common in the Black Hills, but does occur in low areas adjacent to streams and behind silted-in beaver dams. The wetter parts of these areas are dominated by *Carex nebrascensis* and *C. rostrata*, while slightly better drained sites have other species of *Carex* and grasses such as *Deschampsia caespitosa* and *Calamagrostis inexpressa* as dominants. *Iris missouriensis* is very noticeable in these areas during the early summer.

SYMBOLS FOR FAMILY AND TRIBE

<u>Symbol</u>	<u>Family</u>	<u>Tribe</u>	<u>Symbol</u>	<u>Family</u>	<u>Tribe</u>
ACERAC	Aceraceae		COMMEL	Commelinaceae	
ADOXAC	Adoxaceae		COMPOS	Compositae	
ALISMA	Alismaceae		(ANT)		Anthemideae
AMARAN	Amaranthaceae		(AST)		Astereae
ANACAR	Anacardiaceae		(CIC)		Cichorieae
APOCYN	Apocynaceae		(CYN)		Cynareae
ARALIA	Araliaceae		(EUP)		Eupatorieae
ASCLEP	Asclepiadaceae		(HEL)		Heliantheae
AZIOAC	Azioaceae		(HEL2)		Helenieae
			(INU)		Inuleae
BALSAM	Balsaminaceae		(SEN)		Senecioneae
BERBER	Berberidaceae		(VER)		Vernonieae
BETULA	Betulaceae		CONVOL	Convolvulaceae	
BORAGI	Boraginaceae		CORNAC	Cornaceae	
CACTAC	Cactaceae		CRASSU	Crassulaceae	
CALLIT	Callitrichaceae		CRUCIF	Cruciferae	
CAMPAN	Campanulaceae		CUCURB	Cucurbitaceae	
CAPPAR	Capparidaceae		CUPRES	Cupressaceae	
CAPRIF	Caprifoliaceae		CYPERA	Cyperaceae	
CARYOP	Caryophyllaceae		ELAEAG	Elaeagnaceae	
CELAST	Celastraceae		EQUISE	Equisetaceae	
CHENOP	Chenopodiaceae		ERICAC	Ericaceae	
CISTAC	Cistaceae		EUPHOR	Euphorbiaceae	

<u>Symbol</u>	<u>Family</u>	<u>Tribe</u>	<u>Symbol</u>	<u>Family</u>	<u>Tribe</u>
FABACE	Fabaceae		OLEACE	Oleaceae	
FAGACE	Fagaceae		ONAGRA	Onagraceae	
FUMARI	Fumariaceae		OPHIOG	Ophioglossaceae	
			ORCHID	Orchidaceae	
GENTIA	Gentianaceae		OXALID	Oxalidaceae	
GERANI	Geraniaceae				
GRAMIN	Gramineae				
(AGR)		Agrostideae	PAPAVE	Papaveraceae	
(AND)		Andropogoneae	PHRYMA	Phrymaceae	
(AVE)		Aveneae	PINACE	Pinaceae	
(CHL)		Chlorideae	PLANTA	Plantaginaceae	
(FES)		Festuceae	POLEMO	Polemoniaceae	
(HOR)		Hordeae	POLYGA	Polygonaceae	
(PAN)		Paniceae	POLYGO	Polygonaceae	
(PHA)		Phalarideae	POLYPO	Polypodiaceae	
(TRI)		Tripsaceae	PONTED	Pontederiaceae	
			PORTUL	Portulacaceae	
HIPPUR	Hippuridaceae		PRIMUL	Primulaceae	
HYDROP	Hydrophyllaceae				
HYPERI	Hypericaceae				
			RANUNC	Ranunculaceae	
IRIDAC	Iridaceae		RHAMN	Rhamnaceae	
			ROSACE	Rosaceae	
JUGLAN	Juglandaceae		RUBIAC	Rubiaceae	
JUNCAC	Juncaceae				
JUNCAG	Juncaginaceae				
			SALICA	Salicaceae	
LABIAT	Labiatae		SANTAL	Santalaceae	
LEMNAC	Lemnaceae		SAXIFR	Saxifragaceae	
LENTIB	Lentibulariaceae		SCROPH	Scrophulariaceae	
LILIAC	Liliaceae		SELAGI	Selaginellaceae	
LINACE	Linaceae		SOLANA	Solanaceae	
LOASAC	Loasaceae		SPARGA	Sparganiaceae	
LOBELI	Lobeliaceae		TYPHAC	Typhaceae	
LYCOPO	Lycopodiaceae				
			ULMACE	Ulmaceae	
MALVAC	Malvaceae		UMBELL	Umbelliferae	
MARSIL	Marsileaceae				
MORACE	Moraceae				
			VALERI	Valerianaceae	
NAJADA	Najadaceae		VERBEN	Verbenaceae	
NYCTAG	Nyctaginaceae		VIOLAC	Violaceae	
NYMPHA	Nymphaceae		VITACE	Vitaceae	

ALPHABETICAL LIST OF THE VASCULAR PLANTS OF THE BLACK HILLS

<u>SYMBOL</u>	<u>GENERA - SPECIES - AUTHORITY</u>	<u>FAMILY</u>	<u>LIFE FORM</u>
ABRON	<i>Abronia</i> Juss.	NYCTAG	
ABFR	<i>Abronia fragrans</i> Nutt.		F
ACER	<i>Acer</i> L.	ACERAC	
ACGL	<i>Acer glabrum</i> Torr.		T
ACNE	<i>Acer negundo</i> L.		T
ACERA	<i>Acerates</i> Ell.	ASCLEP	
ACAN	<i>Acerates angustifolia</i> (Nutt.) Decne.		F
ACVI	<i>Acerates viridiflora</i> (Raf.) Eat.		F
ACHIL	<i>Achillea</i> L.	COMPOS (ANT)	
ACLA	<i>Achillea lanulosa</i> Nutt.		F
ACMI	<i>Achillea millefolium</i> L.		F
ACNID	<i>Acnida</i> L.	AMARAN	
ACTA	<i>Acnida tamariscina</i> (Nutt.) Wood		F
ACONI	<i>Aconitum</i> L.	RANUNC	
ACCO	<i>Aconitum columbianum</i> Nutt.		F
ACTAE	<i>Actaea</i> L.	RANUNC	
ACAR	<i>Actaea arguta</i> Nutt.		F
ACRA	<i>Actaea rubra</i> (Ait.) Willd.		F
ADENO	<i>Adenocaulon</i> Hook.	COMPOS (HEL2)	
ADBI	<i>Adenocaulon bicolor</i> Hook.		F
ADIAN	<i>Adiantum</i> L.	POLYPO	
ADCA	<i>Adiantum capillus-veneris</i> L.		L
ADPE	<i>Adiantum pedatum</i> L.		L
ADOXA	<i>Adoxa</i> L.	ADOXAC	
ADMO	<i>Adoxa moschatellina</i> L.		F
AGAST	<i>Agastache</i> Clayton	LABIAT	
AGFO	<i>Agastache foeniculum</i> (Pursh) Kuntze		F
AGOSE	<i>Agoseris</i> Raf.	COMPOS (CIC)	
AGAU	<i>Agoseris aurantiaca</i> (Hook.) Greene		F
AGGL	<i>Agoseris glauca</i> (Pursh) D. Dietr.		F
AGRIM	<i>Agrimonia</i> L.	ROSACE	
AGGR2	<i>Agrimonia gryposepala</i> Wallr.		F
AGST	<i>Agrimonia striata</i> Michx.		F
AGROP	<i>Agropyron</i> Gaertn.	GRAMIN (HOR)	
AGAL	<i>Agropyron albicans</i> Scribn. & Smith		G
AGCR	<i>Agropyron cristatum</i> (L.) Gaertn.		G
AGDA	<i>Agropyron dasystachyum</i> (Hook.) Scribn.		G
AGDE	<i>Agropyron desertorum</i> (Fisch.) Schult.		G
AGGR	<i>Agropyron griffithsi</i> Scribn. & Smith		G
AGPS	<i>Agropyron pseudorepens</i> Scribn. & Smith		G
AGRE	<i>Agropyron repens</i> (L.) Beauv.		G
AGRI	<i>Agropyron riparium</i> Scribn. & Smith		G
AGSA	<i>Agropyron saxicola</i> (Scribn. & Smith) Piper		G
AGSM	<i>Agropyron smithii</i> Rydb.		G
AGSP	<i>Agropyron spicatum</i> (Pursh) Scribn. & Smith		G

<u>SYMBOL</u>	<u>GENERA - SPECIES - AUTHORITY</u>	<u>FAMILY</u>	<u>LIFE FORM</u>
AGSU	<i>Agropyron subsecundum</i> (Link) Hitchc.		G
AGTR	<i>Agropyron trachycaulum</i> (Link) Malte		G
AGROS	<i>Agrostis</i> L.	GRAMIN (AGR)	
AGAL	<i>Agrostis alba</i> L.		G
AGEX	<i>Agrostis exarata</i> Trin.		G
AGPA	<i>Agrostis palustris</i> Huds.		G
AGPE	<i>Agrostis perennans</i> (Wal.) Tuckerm.		G
AGSC	<i>Agrostis scabra</i> Willd.		G
ALISM	<i>Alisma</i> L.	ALISMA	
ALPL	<i>Alisma plantago-aquatica</i> L.		F
ALLIU	<i>Allium</i> L.	LILIAC	
ALCE	<i>Allium cernuum</i> Roth		F
ALDR	<i>Allium drummondi</i> Regel		F
ALGE	<i>Allium geyeri</i> Wats.		F
ALST	<i>Allium stellatum</i> Ker		F
ALTE	<i>Allium textile</i> A. Nels. & Macbr.		F
ALOPE	<i>Alopecurus</i> L.	GRAMIN (AGR)	
ALAE	<i>Alopecurus aequalis</i> Sobol.		G
ALTHA	<i>Althaea</i> L.	MALVAC	
ALRO	<i>Althaea rosea</i> L.		F
ALYSS	<i>Alyssum</i> L.	CRUCIF	
ALAL	<i>Alyssum alyssoides</i> L.		F
AMARA	<i>Amaranthus</i> L.	AMARAN	
AMAL2	<i>Amaranthus albus</i> L.		F
AMGR	<i>Amaranthus graecizans</i> L.		F
AMRE	<i>Amaranthus retroflexus</i> L.		F
AMTO	<i>Amaranthus torreyi</i> (Gray) Benth.		F
AMBRO	<i>Ambrosia</i> L.	COMPOS (HEL)	
AMAR	<i>Ambrosia artemisiifolia</i> L.		F
AMPS	<i>Ambrosia psilostachya</i> DC.		F
AMTR	<i>Ambrosia trifida</i> L.		F
AMELA	<i>Amelanchier</i> Medic.	ROSACE	
AMAL	<i>Amelanchier alnifolia</i> Nutt.		S
AMHU	<i>Amelanchier humilis</i> Wieg.		S
AMSC	<i>Amelanchier scopolina</i> Rydb.		S
AMORP	<i>Amorpha</i> L.	FABACE	
AMCA	<i>Amorpha canescens</i> Pursh		F
AMFR	<i>Amorpha fragrans</i> Sweet		F
AMNA	<i>Amorpha nana</i> Nutt.		F
AMPHI	<i>Amphicarpa</i> Ell.	FABACE	
AMBR	<i>Amphicarpa bracteata</i> (L.) Fern.		F
ANAPH	<i>Anaphalis</i> DC.	COMPOS (HEL2)	
ANMA	<i>Anaphalis margaritacea</i> (L.) Benth. & Hook.		F
ANCHU	<i>Anchusa</i> L.	BORAGI	
ANOF	<i>Anchusa officinalis</i> L.		F
ANDRO	<i>Andropogon</i> L.	GRAMIN (AND)	
ANGE	<i>Andropogon gerardii</i> Vitman		G

<u>SYMBOL</u>	<u>GENERA - SPECIES - AUTHORITY</u>	<u>FAMILY</u>	<u>LIFE FORM</u>
ANHA	<i>Andropogon hallii</i> Hack.		G
ANSC	<i>Andropogon scoparius</i> Michx.		G
ANDRO2	<i>Androsace</i> L.	PRIMUL	F
ANOC	<i>Androsace occidentalis</i> Pursh		F
ANSEP	<i>Androsace septentrionalis</i> var. <i>puberulenta</i> (Rydb.) Kunth		F
ANSES	<i>Androsace septentrionalis</i> var. <i>septentrionalis</i>		F
ANSES2	<i>Androsace septentrionalis</i> var. <i>subulifera</i> Gray		F
ANEMO	<i>Anemone</i> L.	RANUNC	
ANCY	<i>Anemone cylindrica</i> Gray		F
ANGL	<i>Anemone globosa</i> Nutt.		F
ANPA	<i>Anemone patens</i> L.		F
ANRI	<i>Anemone riparia</i> Fern.		F
ANVI	<i>Anemone virginiana</i> L.		F
ANTEN	<i>Antennaria</i> Gaertn.	COMPOS (INU)	
ANMI	<i>Antennaria microphylla</i> Rydb.		F
ANNE	<i>Antennaria neglecta</i> Greene		F
ANOX	<i>Antennaria oxyphylla</i> Greene		F
ANPA2	<i>Antennaria parvifolia</i> Nutt.		F
ANPA3	<i>Antennaria parvula</i> Greene		F
ANPL	<i>Antennaria plantaginifolia</i> (L.) Richards.		F
ANRA	<i>Antennaria racemosa</i> Hook.		F
ANRO	<i>Antennaria rosea</i> (D. C. Eat.) Greene		F
ANTHE	<i>Anthemis</i> L.	COMPOS (ANT)	
ANCO	<i>Anthemis cotula</i> L.		F
APIOS	<i>Apios</i> Medic.	FABACE	
APAM	<i>Apios americana</i> Medic.		F
APOCY	<i>Apocynum</i> L.	APOCYN	
APAN	<i>Apocynum androsaemifolium</i> L.		F
APANG	<i>Apocynum androsaemifolium</i> var. <i>glabrum</i> Macoun		F
APCA	<i>Apocynum cannabinum</i> L.		F
APSI	<i>Apocynum sibiricum</i> Jacq.		F
AQUIL	<i>Aquilegia</i> L.	RANUNC	
AQBR	<i>Aquilegia brevistyla</i> Hook.		F
AQCA	<i>Aquilegia canadensis</i> L.		F
ARAB12	<i>Arabidopsis</i> Heyn.	CRUCIF	
ARTH	<i>Arabidopsis thaliana</i> (L.) Heyn.		F
ARABI	<i>Arabis</i> L.	CRUCIF	
ARAL	<i>Arabis albertina</i> Greene		F
ARDI	<i>Arabis divaricarpa</i> A. Nels.		F
ARDR2	<i>Arabis drummondii</i> Gray		F
ARFE	<i>Arabis fendleri</i> (Watson) Greene		F
ARGL	<i>Arabis glabra</i> (L.) Bernh.		F
ARHI	<i>Arabis hirsuta</i> (L.) Scop.		F
ARHO	<i>Arabis holboellii</i> Hornem.		F
ARLI	<i>Arabis lignifera</i> A. Nels.		F
ARLI2	<i>Arabis lignipes</i> A. Nels.		F
ARALI	<i>Aralia</i> L.	ARALIA	
ARNU	<i>Aralia nudicaulis</i> L.		F
ARCTI	<i>Arctium</i> L.	COMPOS (CYN)	

<u>SYMBOL</u>	<u>GENERA - SPECIES - AUTHORITY</u>	<u>FAMILY</u>	<u>LIFE FORM</u>
ARLA	<i>Arctium lappa</i> L.		F
ARMI	<i>Arctium minus</i> Schk.		F
ARCTO	<i>Arctostaphylos</i> Adans.	ERICAC	
ARUV	<i>Arctostaphylos uva-ursi</i> (L.) Spreng.		S
ARENA	<i>Arenaria</i> L.	CARYOP	
ARHO	<i>Arenaria hookeri</i> Nutt.		F
ARLA2	<i>Arenaria lateriflora</i> L.		F
ARRU	<i>Arenaria rubella</i> (Wahlenb.) Sm.		F
ARST	<i>Arenaria stricta</i> Michx.		F
ARGEM	<i>Argemone</i> L.	PAPAVE	
ARIN	<i>Argemone intermedia</i> Sweet		F
ARIST	<i>Aristida</i> L.	GRAMIN (AGR)	
ARFE	<i>Aristida fendleriana</i> Steud.		G
ARLO	<i>Aristida longiseta</i> Steud.		G
ARLOR	<i>Aristica longiseta</i> var. <i>robusta</i> Merr.		G
ARMOR	<i>Armoracia</i> Gaertn. Mey. & Scherb.	CRUCIF	
ARLA3	<i>Armoracia lapathifolia</i> Gilib.		F
ARNIC	<i>Arnica</i> L.	COMPOS (SEN)	
ARCO	<i>Arnica cordifolia</i> Hook.		F
ARFU	<i>Arnica fulgens</i> Pursh		F
ARLO2	<i>Arnica lonchophylla</i> Greene		F
ARRY	<i>Arnica rydbergii</i> Greene		F
ARTEM	<i>Artemisia</i> L.	COMPOS (ANT)	
ARAB	<i>Artemisia absinthium</i> L.		F
ARBI	<i>Artemisia biennis</i> Willd.		F
ARCA2	<i>Artemisia campestris</i> L.		F
ARCA	<i>Artemisia cana</i> Pursh		S
ARCA3	<i>Artemisia caudata</i> Michx.		F
ARDR	<i>Artemisia dracunculus</i> L.		F
ARFA	<i>Artemisia falcata</i> Rydb.		F
ARFI	<i>Artemisia filifolia</i> Torr.		S
ARFR	<i>Artemisia frigida</i> Willd.		S
ARLO3	<i>Artemisia longifolia</i> Nutt.		F
ARLU	<i>Artemisia ludoviciana</i> Nutt.		F
ARPA	<i>Artemisia pacifica</i> Nutt.		F
ARTR	<i>Artemisia tridentata</i> Nutt.		S
ASCLE	<i>Asclepias</i> L.	ASCLEP	
ASTIN	<i>Asclepias incarnata</i> L.		F
ASOV	<i>Asclepias ovalifolia</i> Decne.		F
ASPU	<i>Asclepias punila</i> (Gray) Vail		F
ASSP2	<i>Asclepias speciosa</i> Torr.		F
ASVI2	<i>Asclepias viridifolia</i> Raf.		F
ASPAR	<i>Asparagus</i> L.	LILIAC	
ASOF	<i>Asparagus officinalis</i> L.		F
ASPLE	<i>Asplenium</i> L.	POLYPO	
ASSE	<i>Asplenium septentrionale</i> (L.) Hoffm.		L
ASTR	<i>Asplenium trichomanes</i> L.		L
ASVI	<i>Asplenium viride</i> Huds.		F
ASTER	<i>Aster</i> L.	COMPOS (AST)	
ASCA	<i>Aster canescens</i> Pursh		F

<u>SYMBOL</u>	<u>GENERA - SPECIES - AUTHORITY</u>	<u>FAMILY</u>	<u>LIFE FORM</u>
ASCI	<i>Aster ciliolatus</i> Lindl.		F
ASCO	<i>Aster conspicuus</i> Lindl.		F
ASER	<i>Aster ericoides</i> L.		F
ASFA	<i>Aster falcatus</i> Lindl.		F
ASFO	<i>Aster forwoodii</i> Wats.		F
ASHE	<i>Aster hesperius</i> Gray		F
ASHEL	<i>Aster hesperius</i> var. <i>laetevirens</i> (Greene) Cronq.		F
ASJU	<i>Aster junceiformis</i> Rydb.		F
ASLA	<i>Aster laevis</i> L.		F
ASME	<i>Aster mearnsii</i> Rydb.		F
ASME2	<i>Aster meritus</i> A. Nels.		F
ASNO	<i>Aster novae-angliae</i> L.		F
ASOB	<i>Aster oblongifolius</i> Nutt.		F
ASPA	<i>Aster pauciflorus</i> Nutt.		F
ASPR	<i>Aster paealtus</i> Poir.		F
ASPT	<i>Aster ptarmicoides</i> (Nees) T. & G.		F
ASPU	<i>Aster puniceus</i> L.		F
ASSE	<i>Aster sessiliflora</i> Nutt.		F
ASSI	<i>Aster simplex</i> Willd.		F
ASTA	<i>Aster tanacetifolius</i> HBK.		F
ASXY	<i>Aster xyloorrhiza</i> T. & G.		F
ASTRA	<i>Astragalus</i> L.	FABACE	
ASAB	<i>Astragalus aboriginum</i> Richards.		F
ASAG	<i>Astragalus agrestis</i> Dougl.		F
ASAL	<i>Astragalus alpinus</i> L.		F
ASBI	<i>Astragalus bisulcatus</i> (Hook.) Gray		F
ASCA2	<i>Astragalus canadensis</i> L.		F
ASCO2	<i>Astragalus convallarius</i> Greene		F
ASCR	<i>Astragalus crassicarpus</i> Nutt.		F
ASDR	<i>Astragalus drummondii</i> Dougl.		F
ASFL	<i>Astragalus flexuosus</i> Dougl.		F
ASFR	<i>Astragalus frigidus</i> (L.) Gray		F
ASGI	<i>Astragalus gilviflorus</i> Sheld.		F
ASGR	<i>Astragalus gracilis</i> Nutt.		F
ASLO	<i>Astragalus lotiflorus</i> Hook.		F
ASMID	<i>Astragalus miser</i> var. <i>decumbens</i> (Nutt.) Cronq.		F
ASMI	<i>Astragalus missouriensis</i> Nutt.		F
ASPL	<i>Astragalus plattensis</i> Nutt.		F
ASSP	<i>Astragalus spatulatus</i> Sheld.		F
ASST	<i>Astragalus striatus</i> Nutt.		F
ASTE	<i>Astragalus tenellus</i> Pursh		F
ASVE	<i>Astragalus vexilliflexus</i> Sheld.		F
ATHYR	<i>Athyrium</i> Roth	POLYPO	
ATFI	<i>Athyrium filix-femina</i> (L.) Roth		L
ATTH	<i>Athyrium thelypteroides</i> (Michx.) Desv.		L
ATRIP	<i>Atriplex</i> L.	CHENOP	
ATAR	<i>Atriplex argentea</i> Nutt.		F
ATCO	<i>Atriplex confertifolia</i> (Torr.) Wats.		S
ATDI	<i>Atriplex dioica</i> (Nutt.) Macbride		F
ATNU	<i>Atriplex nuttallii</i> Wats.		S
ATPO	<i>Atriplex powellii</i> Wats.		F
ATRO	<i>Atriplex rosea</i> L.		F
AVENA	<i>Avena</i> L.	GRAMIN (AVE)	
AVFA	<i>Avena fatua</i> L.		G
AVSA	<i>Avena sativa</i> L.		G

<u>SYMBOL</u>	<u>GENERA - SPECIES - AUTHORITY</u>	<u>FAMILY</u>	<u>LIFE FORM</u>
BACOP	<i>Bacopa</i> Aubl.	SCROPH	
BARO	<i>Bacopa rotundifolia</i> (Michx.) Wettst.		F
BAHIA	<i>Bahia</i> Lag.	COMPOS (HEL2)	
BAOP	<i>Bahia oppositifolia</i> (Nutt.) DC.		F
BALSA	<i>Balsamorhiza</i> Hook.	COMPOS (HEL)	
BASEA	<i>Balsamorhiza saggittata</i> (Pursh) Nutt.		F
BARBA	<i>Barbarea</i> R. Br.	CRUCIF	
BAOR	<i>Barbarea orthoceras</i> Ledeb.		F
BECKM	<i>Beckmannia</i> Host.	GRAMIN (CHL)	
BESY	<i>Beckmannia syzigachne</i> (Steud.) Fern.		G
BERBI	<i>Berberis</i> L.	BERBER	
BERE	<i>Berberis repens</i> Lindl.		S
BERUL	<i>Berula</i> Hoffm.	UMBELL	
BEER	<i>Berula erecta</i> (Huds.) Cov.		F
BESSE	<i>Besseyea</i> Rydb.	SCROPH	
BECTI	<i>Besseyea cinera</i> (Raf.) Pennell		F
BETUL	<i>Betula</i> L.	BETULA	
BECA	<i>Betula caerulea-grandis</i> Blanchard		T
BEGL	<i>Betula glandulosa</i> Michx.		S
BEOC	<i>Betula occidentalis</i> Hook.		S
BEPA	<i>Betula papyrifera</i> Marsh.		T
BIDEN	<i>Bidens</i> L.	COMPOS (HEL)	
BICE	<i>Bidens cernua</i> L.		F
BIFR	<i>Bidens frondosa</i> L.		F
BOTRY	<i>Botrychium</i> Sw.	OPHIOP	
BOLA	<i>Botrychium lanceolatum</i> (Gmel.) Rupr.		L
BOMA	<i>Botrychium matricariifolium</i> A. Br.		L
BOSI	<i>Botrychium simplex</i> E. Hitchc.		L
BOVI	<i>Botrychium virginianum</i> (L.) Sw.		L
BOUTE	<i>Bouteloua</i> Lag.	GRAMIN (CHL)	
BOCU	<i>Bouteloua curtipendula</i> (Michx.) Torr.		G
BOGR	<i>Bouteloua gracilis</i> (HBK.) Lag.		G
BOHI	<i>Bouteloua hirsuta</i> Lag.		G
BRASS	<i>Brassica</i> L.	CRUCIF	
BRHI	<i>Brassica hirta</i> Moench		F
BRKA	<i>Brassica kabera</i> (DC.) L.		F
BRNI	<i>Brassica nigra</i> (L.) Koch		F
BROMU	<i>Bromus</i> L.	GRAMIN (FES)	
BRAN	<i>Bromus anomalus</i> Rupr.		G
BRBR	<i>Bromus breviaristatus</i> Buckl.		G
BRBR2	<i>Bromus brizaeformis</i> Fisch. & Mey.		G
BRCI	<i>Bromus ciliatus</i> L.		G
BRIN	<i>Bromus inermis</i> Leyss.		G
BRJA	<i>Bromus japonicus</i> Thunb.		G
BRKA	<i>Bromus kalmii</i> Gray		G
BRLA	<i>Bromus latiglumis</i> (Shear) Hitchc.		G
BRMA	<i>Bromus marginatus</i> Nees		G

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BRMO	<i>Bromus mollis</i> L.		G
BRPU	<i>Bromus pumpellianus</i> Scribn.		G
BRPUT	<i>Bromus pumpellianus</i> var. <i>tweedyi</i> Scribn.		G
BRPU2	<i>Bromus purgans</i> L.		G
BRRA	<i>Bromus racemosus</i> L.		G
BRSE	<i>Bromus secalinus</i> L.		G
BRTE	<i>Bromus tectorum</i> L.		G
BUCHL	<i>Buchloe</i> Engelm.	GRAMIN (CHL)	
BUDA	<i>Buchloe dactyloides</i> (Nutt.) Engelm.		G
CALAM	<i>Calamagrostis</i> Adans.	GRAMIN (AGR)	
CACA	<i>Calamagrostis canadensis</i> (Michx.) Beauv.		G
CAIN2	<i>Calamagrostis inexpansa</i> Gray		G
CAMO	<i>Calamagrostis montanensis</i> Scribn.		G
CANE2	<i>Calamagrostis neglecta</i> (Ehrh.) Gaertn.		G
CAPI	<i>Calamagrostis pickeringii</i> Gray		G
CAPU	<i>Calamagrostis purpurascens</i> R. Br.		G
CALAM2	<i>Calamovilfa</i> Hack.		G
CALO	<i>Calamovilfa longifolia</i> (Hook.) Scribn.		G
CALL1	<i>Callitricha</i> L.	CALLIT	
CAHE2	<i>Callitricha hermaphroditica</i> L.		F
CAPA	<i>Callitricha palustris</i> L.		F
CALOC	<i>Calochortus</i> Pursh	LILIAC	
CAGU	<i>Calochortus gunnisonii</i> Wats.		F
CANU	<i>Calochortus nuttallii</i> T. & G.		F
CALYP	<i>Calypso</i> Salisb.	ORCHID	
CABU	<i>Calypso bulbosa</i> (L.) Oakes		F
CAMEL	<i>Camelina</i> Crantz	CRUCIF	
CASA3	<i>Camelina sativa</i> (L.) Crantz		F
CAMPA	<i>Campanula</i> L.	CAMPAN	
CAAP	<i>Campanula aparinoides</i> Pursh		F
CARO	<i>Campanula rotundifolia</i> L.		F
CAPSE	<i>Capsella</i> Medic.	CRUCIF	
CABU2	<i>Capsella bursa-pastoris</i> (L.) Medic.		F
CARDA	<i>Cardamine</i> L.	CRUCIF	
CAPE	<i>Cardamine pensylvanica</i> Muhl.		F
CAREX	<i>Carex</i> L.	CYPERA	
CAAЕ	<i>Carex aenea</i> Fern.		G
CAAQ	<i>Carex aquatilis</i> Wahl.		G
CAAT	<i>Carex atherodes</i> Spreng.		G
CAAU	<i>Carex aurea</i> Nutt.		G
CABE	<i>Carex bebbii</i> Olney		G
CABE2	<i>Carex bella</i> Bailey		G
CABR	<i>Carex brevior</i> (Dewey) Mack.		G
CACO	<i>Carex concinna</i> R. Br.		G
CADE	<i>Carex deweyana</i> Schwein.		G
CADI	<i>Carex disperma</i> Dewey		G
CAEB	<i>Carex eburnea</i> Boott		G
CAEL	<i>Carex eleocharis</i> Bailey		G
CAFE	<i>Carex festivella</i> Mack.		G

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CAFI	<i>Carex filifolia</i> Nutt.		G
CAFO	<i>Carex foenea</i> Willd.		G
CAGR	<i>Carex granularis</i> Muhl.		G
CAGR2	<i>Carex gravida</i> Bailey		G
CAHA	<i>Carex haydenii</i> Dewey		G
CAHE	<i>Carex heliophila</i> Mack.		G
CAHO	<i>Carex hoodii</i> Boott		G
CAHY	<i>Carex hystericina</i> Muhl.		G
CAIN	<i>Carex interior</i> Bailey		G
CALA	<i>Carex lasiocarpa</i> Ehrh.		G
CALA2	<i>Carex laxiflora</i> Lam.		G
CALE	<i>Carex leptalea</i> Wahl.		G
CAMI	<i>Carex microptera</i> Mack.		G
CANE	<i>Carex nebrascensis</i> Dewey		G
CANI	<i>Carex nigro-marginata</i> Schw.		G
CAOB	<i>Carex obtusata</i> Lilj.		G
CAPR	<i>Carex praegracilis</i> W. Boott		G
CAPR2	<i>Carex prairea</i> Dewey		G
CAPR3	<i>Carex praticola</i> Rydb.		G
CARI	<i>Carex richardsonii</i> R. Br.		G
CAR02	<i>Carex rosea</i> Schk.		G
CAR03	<i>Carex rossii</i> Boott		G
CAR04	<i>Carex rostrata</i> Stokes		G
CARU	<i>Carex rupestris</i> All.		G
CASA	<i>Carex sartwellii</i> Dewey		G
CASA2	<i>Carex saximontana</i> Mack.		G
CASC	<i>Carex scoparia</i> Schk.		G
CASP	<i>Carex sprengelii</i> Dewey		G
CAST	<i>Carex stipata</i> Muhl.		G
CAST2	<i>Carex stricta</i> Lam.		G
CATE	<i>Carex tenera</i> Dewey		G
CATO	<i>Carex torreyi</i> Tuckerm.		G
CAVA	<i>Carex vallicola</i> Dewey		G
CAVI	<i>Carex viridula</i> Michx.		G
CAXE	<i>Carex xerantica</i> Bailey		G
CARUM	<i>Carum</i> L.	UMBELL	
CACA2	<i>Carum carvi</i> L.		F
CASTI	<i>Castilleja</i> Mutis	SCROPH	
CARH	<i>Castilleja rhexifolia</i> Rydb.		F
CASE	<i>Castilleja septentrionalis</i> Lindl.		F
CASE2	<i>Castilleja sessiliflora</i> Pursh		F
CATAB	<i>Catabrosa</i> Beauv.	GRAMIN (FES)	
CAAQ2	<i>Catabrosa aquatica</i> (L.) Beauv.		G
CEANO	<i>Ceanothus</i> L.	RHAMNA	
CEFE	<i>Ceanothus fendleri</i> Gray		S
CEOV	<i>Ceanothus ovatus</i> Desf.		S
CESA	<i>Ceanothus sanguineus</i> Pursh		S
CEVE	<i>Ceanothus velutinus</i> Dougl.		S
CELAS	<i>Celastrus</i> L.	CELAST	
CESC	<i>Celastrus scandens</i> L.		F
CELTI	<i>Celtis</i> L.	ULMACE	
CEOCC	<i>Celtis occidentalis</i> L.		S

<u>SYMBOL</u>	<u>GENERA - SPECIES - AUTHORITY</u>	<u>FAMILY</u>	<u>LIFE FORM</u>
CENCH	<i>Cenchrus</i> L.	GRAMIN (PAN)	
CEPA	<i>Cenchrus pauciflorus</i> Benth.		G
CENTA	<i>Centaurea</i> L.	COMPOS (CYN)	
CECY	<i>Centaurea cyanus</i> L.		F
CENTU	<i>Centunculus</i> L.	PRIMUL	
CEMI	<i>Centunculus minimus</i> L.		F
CERAS	<i>Cerastium</i> L.	CARYOP	
CEAR	<i>Cerastium arvense</i> L.		F
CENU	<i>Cerastium nutans</i> Raf.		F
CERCO	<i>Cercocarpus</i> HBK.	ROSACE	
CEMO	<i>Cercocarpus montanus</i> Raf.		S
CHEIL	<i>Cheilanthes</i> Sw.	POLYPO	
CHFE	<i>Cheilanthes feei</i> Moore		L
CHENO	<i>Chenopodium</i> L.	CHENOP	
CHAL	<i>Chenopodium album</i> L.		S
CHAT	<i>Chenopodium atrovirens</i> Rydb.		F
CHBO	<i>Chenopodium botrys</i> L.		F
CHCA	<i>Chenopodium capitatum</i> (L.) Asch.		F
CHFE	<i>Chenopodium fremontii</i> Wats.		F
CHGL	<i>Chenopodium glaucum</i> L.		F
CHHY	<i>Chenopodium hybridum</i> L.		F
CHIN	<i>Chenopodium incanum</i> (Wats.) A. Heller		F
CHLE	<i>Chenopodium leptophyllum</i> Nutt.		F
CHPR	<i>Chenopodium pratericola</i> Rydb.		F
CHWA	<i>Chenopodium watsonii</i> A. Nels.		F
CHIMA	<i>Chimaphila</i> Pursh	ERICAC	
CHUM	<i>Chimaphila umbellata</i> (L.) Bart.		S
CHORI	<i>Chorispora</i> R. Br.	CRUCIF	
CHTE	<i>Chorispora tenella</i> (Pall.) DC.		F
CHRY52	<i>Chrysanthemum</i> L.	COMPOS (ANT)	
CHBA	<i>Chrysanthemum balsamita</i> L.		F
CHLE2	<i>Chrysanthemum leucanthemum</i> L.		F
CHRY53	<i>Chrysopsis</i> Nutt.	COMPOS (AST)	
CHFU	<i>Chrysopsis fulcrata</i> Greene		F
CHHI	<i>Chrysopsis hispida</i> (Hook.) DC.		F
CHVI	<i>Chrysopsis villosa</i> (Pursh) Nutt.		F
CHRY5	<i>Chrysothamnus</i> Nutt.	COMPOS (AST)	
CHNA	<i>Chrysothamnus nauseosus</i> (Pallas) Britt.		S
CHPL	<i>Chrysothamnus plattensis</i> Greene		S
CICHO	<i>Cichorium</i> L.	COMPOS (CIC)	
CIIN	<i>Cichorium intybus</i> L.		F
CICUT	<i>Cicuta</i> L.	UMBELL	
CIDO	<i>Cicuta douglasii</i> (DC.) Coulter. & Rose		F
CINNA	<i>Cinna</i> L.	GRAMIN (AGR)	
CIAR2	<i>Cinna arundinacea</i> L.		G
CILA	<i>Cinna latifolia</i> (Trev.) Griseb.		G

<u>SYMBOL</u>	<u>GENERA - SPECIES - AUTHORITY</u>	<u>FAMILY</u>	<u>LIFE FORM</u>
CIRCA	<i>Circaea</i> L.	ONAGRA	
CIAL	<i>Circaea alpina</i> L.		F
CIQU	<i>Circaea quadrangularis</i> (Maxim) Franch. & Sav.		F
CIRSI	<i>Cirsium</i> Mill.	COMPOS (CYN)	
CIAR	<i>Cirsium arvense</i> (L.) Scop.		F
CIFL	<i>Cirsium flodmanii</i> (Rydb.) Arthur		F
CIFO	<i>Cirsium foliosum</i> (Hook.) DC.		F
CIHI	<i>Cirsium hillii</i> (Canby) Fern.		F
CIUN	<i>Cirsium undulatum</i> (Nutt.) Spreng.		F
CIVU	<i>Cirsium vulgare</i> (Savi) Airy-Shaw		F
CLEMA	<i>Clematis</i> L.	RANUNC	
CLHI	<i>Clematis hirsutissima</i> Pursh		F
CLLI	<i>Clematis ligusticifolia</i> Nutt.		F
CLPS	<i>Clematis pseudoalpina</i> (Kuntze) A. Nels.		F
CLEOM	<i>Cleome</i> L.	CAPPAR	
CLSE	<i>Cleome serrulata</i> Pursh		F
COLLI	<i>Collinsia</i> Nutt.	SCROPH	
COPA	<i>Collinsia parviflora</i> Dougl.		F
COLLO	<i>Collomia</i> Nutt.	POLEMO	
COLI	<i>Collomia linearis</i> Nutt.		F
COMAN	<i>Comandra</i> Nutt.	SANTAL	
COPA2	<i>Comandra pallida</i> A. DC.		F
CORI	<i>Comandra richardsiana</i> Nutt.		F
CONVO	<i>Convolvulus</i> L.	CONVOL	
COAR	<i>Convolvulus arvensis</i> L.		F
COMA2	<i>Convolvulus macounii</i> Greene		F
COSE	<i>Convolvulus sepium</i> L.		F
CONYZ	<i>Conyza</i> L.	COMPOS (AST)	
COCA2	<i>Conyza canadensis</i> (L.) Cronq.		F
CORAL	<i>Corallorrhiza</i> Chat.	ORCHID	
COMA	<i>Corallorrhiza maculata</i> Raf.		F
COST2	<i>Corallorrhiza striata</i> Lindl.		F
COTR	<i>Corallorrhiza trifida</i> Chat.		F
COWI	<i>Corallorrhiza wisteriana</i> Conrad		F
CORNU	<i>Cornus</i> L.	CORNAC	
COCA	<i>Cornus canadensis</i> L.		S
COST	<i>Cornus stolonifera</i> Michx.		S
COSTI	<i>Cornus stolonifera</i> forma <i>interior</i> (Rydb.) Rickett		S
CORYD	<i>Corydalis</i> Medic.	FUMAR	
COAU	<i>Corydalis aurea</i> Willd.		F
COMO	<i>Corydalis montana</i> Engelm.		F
CORYL	<i>Corylus</i> L.	BETULA	
COAM	<i>Corylus americana</i> Walt.		S
COCO	<i>Corylus cornuta</i> Marsh.		S
CORYP	<i>Coryphantha</i> (Engelm.) Lem.	CACTAC	
COMI	<i>Coryphantha missouriensis</i> (Sweet) Britt. & Rose		F
COVI	<i>Coryphantha vivipara</i> (Nutt.) Britt. & Rose		F

<u>SYMBOL</u>	<u>GENERA - SPECIES - AUTHORITY</u>	<u>FAMILY</u>	<u>LIFE FORM</u>
CRATA	<i>Crataegus</i> L.	ROSACE	
CRCH	<i>Crataegus chrysocarpa</i> Ashe		S
CRER	<i>Crataegus erythropoda</i> Ashe		S
CRSU	<i>Crataegus succulenta</i> Link		S
CREPI	<i>Crepis</i> L.	COMPOS (CIC)	
CRRU	<i>Crepis runcinata</i> (James) T. & G.		F
CROTO	<i>Croton</i> L.	EUPHOR	
CRTE	<i>Croton texensis</i> (Klotzsch) Muell.-Arg.		F
CRYPT	<i>Cryptantha</i> Lehm.	BORAGI	
CRAF	<i>Cryptantha affinis</i> (Gray) Greene		F
CRBR	<i>Cryptantha bradburiana</i> Payson		F
CRCA	<i>Cryptantha cana</i> (A. Nels.) Payson		F
CRCR	<i>Cryptantha crassisepala</i> (T. & G.) Greene		F
CRPA	<i>Cryptantha pattersonii</i> (Gray) Greene		F
CRTH	<i>Cryptantha thyrsiflora</i> (Greene) Payson		F
CUSCU	<i>Cuscuta</i> L.	CONVOL	
CUCA	<i>Cuscuta campestris</i> Yuncker		F
CYCLO	<i>Cycloloma</i> Moq.	CHENOP	
CYAT	<i>Cycloloma atriplicifolium</i> (Spreng.) Coult.		F
CYMOP	<i>Cymopterus</i> Raf.	UMBELL	
CYAC2	<i>Cymopterus acaulis</i> (Pursh) Raf.		F
CYMO	<i>Cymopterus montanus</i> (Nutt.) T. & G.		F
CYOG	<i>Cynoglossum</i> L.	BORAGI	
CYOF	<i>Cynoglossum officinale</i> L.		F
CYPER	<i>Cyperus</i> L.	CYPERA	
CYAC	<i>Cyperus acuminatus</i> Torr. & Hook.		G
CYAR	<i>Cyperus aristatus</i> Rottb.		G
CYFI	<i>Cyperus filiculmis</i> Vahl		G
CYSC	<i>Cyperus schweinitzii</i> Torr.		G
CYPRI	<i>Cypripedium</i> L.	ORCHID	
CYCA	<i>Cypripedium calceolus</i> L.		F
CYSTO	<i>Cystopteris</i> (L.) Bernh.	POLYPO	
CYBU	<i>Cystopteris bulbifera</i> (L.) Bernh.		L
CYFR	<i>Cystopteris fragilis</i> (L.) Bernh.		L
DACTY	<i>Dactylis</i> L.	GRAMIN (FES)	
DAGL	<i>Dactylis glomerata</i> L.		G
DALEA	<i>Dalea</i> Willd.	FABACE	
DAAU	<i>Dalea aurea</i> Nutt.		F
DAEN	<i>Dalea enneandra</i> Nutt.		F
DANTH	<i>Danthonia</i> Lam. & DC.	GRAMIN (AVE)	
DAIN	<i>Danthonia intermedia</i> Vasey		G
DASP	<i>Danthonia spicata</i> (L.) Beauv.		G
DAUN	<i>Danthonia unispicata</i> (Thurb.) Munro ex Macoun		G
DAUCU	<i>Daucus</i> L.	UMBELL	
DACA	<i>Daucus carota</i> L.		F
DELPH	<i>Delphinium</i> L.	RANUNC	
DEBI	<i>Delphinium bicolor</i> Nutt.		F

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DENE	<i>Delphinium nelsonii</i> Greene		F
DESCH	<i>Deschampsia</i> Beauv.	GRAMIN (AVE)	
DECA	<i>Deschampsia caespitosa</i> (L.) Beauv.		G
DESCU	<i>Descurainia</i> Webb. & Barth.	CRUCIF	
DEPI	<i>Descurainia pinnata</i> (Walt.) Britt.		F
DEPIB	<i>Descurainia pinnata</i> var. <i>brachycarpa</i> (Richards.) Fern.		F
DEPIF	<i>Descurainia pinnata</i> var. <i>filipes</i> (Gray) Detling		F
DERI	<i>Descurainia richardsonii</i> (Sweet) E. O. Schulz		F
DERI1	<i>Descurainia richardsonii</i> var. <i>incisa</i> (Engelm.) Detling		F
	<i>Descurainia sophia</i> (L.) Webb. ex Prantl; Engler & Prantl		F
DESMO	<i>Desmodium</i> Desv.	FABACE	
DECA2	<i>Desmodium canadense</i> (L.) DC.		F
DIANT	<i>Dianthus</i> L.	CARYOP	
DIAR	<i>Dianthus armeria</i> L.		F
DIGIT	<i>Digitaria</i> Heist	GRAMIN (PAN)	
DISA	<i>Digitaria sanguinalis</i> (L.) Scop.		G
DISPO	<i>Disporum</i> Salisb.	LILIAC	
DITR	<i>Disporum trachycarpum</i> (Wats.) Benth. & Hook.		F
DISTI	<i>Distichlis</i> Raf.	GRAMIN (FES)	
DIST	<i>Distichlis stricta</i> (Torr.) Rydb.		G
DODEC	<i>Dodecatheon</i> L.	PRIMUL	
DOPU	<i>Dodecatheon pulchellum</i> (Raf.) Merr.		F
DORA	<i>Dodecatheon radicatum</i> Greene		F
DRABA	<i>Draba</i> L.	CRUCIF	
DRAU	<i>Draba aurea</i> M. Vahl		F
DRNE	<i>Draba nemorosa</i> L.		F
DRRE	<i>Draba reptans</i> (Lam.) Fern.		F
DRST	<i>Draba stenoloba</i> Lebed.		F
DRSU	<i>Draba surculifera</i> A. Nels.		F
DRACO	<i>Dracocephalum</i> L.	LABIAT	
DRNU	<i>Dracocephalum nuttallii</i> Benth.		F
DRYOP	<i>Dryopteris</i> Adans.	POLYPO	
DRFI	<i>Dryopteris filix-mas</i> (L.) Schott.		L
DYSSO	<i>Dysiodia</i> Cav.	COMPOS (HEL2)	
DYPA	<i>Dysiodia papposa</i> (Vent.) Hitchc.		F
ECHIN	<i>Echinacea</i> Moench	COMPOS (HEL)	
ECAN	<i>Echinacea angustifolia</i> DC.		F
ECPA	<i>Echinacea pallida</i> Nutt.		F
ECHIN2	<i>Echinochloa</i> Beauv.	GRAMIN (PAN)	
ECCR	<i>Echinochloa crus-galli</i> (L.) Beauv.		G
ECHIN3	<i>Echinocystis</i> T. & G.	CUCURB	
ECLO	<i>Echinocystis lobata</i> (Michx.) T. & G.		F
ECHIU	<i>Echium</i> L.	BORAGI	
ECVU	<i>Echium vulgare</i> L.		F

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ELAEA	<i>Elaeagnus</i> L.	ELAEAG	
ELAN	<i>Elaeagnus angustifolia</i> L.		S
ELCO	<i>Elaeagnus commutata</i> Bernh.		S
ELEOC	<i>Eleocharis</i> R. Br.	CYPERA	
ELAC	<i>Eleocharis acicularis</i> (L.) R. & S.		G
ELCA2	<i>Eleocharis calva</i> Torr.		G
ELGE	<i>Eleocharis geniculata</i> (L.) R. & S.		G
ELIN2	<i>Eleocharis intermedia</i> (Muhl.) Schult.		G
ELMA2	<i>Eleocharis macrostachya</i> Britt.		G
ELPA	<i>Eleocharis pauciflora</i> (Lightf.) Link		G
ELRO	<i>Eleocharis rostellata</i> Torr.		G
ELLIS	<i>Ellisia</i> L.	HYDROP	
ELNY	<i>Ellisia nyctelea</i> L.		F
ELYMU	<i>Elymus</i> L.	GRAMIN (HOR)	
ELCA	<i>Elymus canadensis</i> L.		G
ELCO	<i>Elymus condensatus</i> Presl		G
ELFL	<i>Elymus flavescens</i> Scribn. & Smith		G
ELGL	<i>Elymus glaucus</i> Buckl.		G
ELIN	<i>Elymus innovatus</i> Beal		G
ELMA	<i>Elymus macounii</i> Vasey		G
ELVI	<i>Elymus virginicus</i> L.		G
EPILO	<i>Epilobium</i> L.	ONAGRA	
EPAD	<i>Epilobium adenocaulon</i> Haussk.		F
EPAL	<i>Epilobium alpinum</i> L.		F
EPAN	<i>Epilobium angustifolium</i> L.		F
EPHA	<i>Epilobium haleeanum</i> Haussk.		F
EPHO	<i>Epilobium hornemannii</i> Reichenb.		F
EPLA	<i>Epilobium latifolium</i> L.		F
EPLA	<i>Epilobium leptophyllum</i> Raf.		F
EPPA	<i>Epilobium palmeri</i> Rydb.		F
EPPA2	<i>Epilobium palustre</i> L.		F
EPPA3	<i>Epilobium paniculatum</i> Nutt.		F
EPANS	<i>Epilobium paniculatum</i> var. <i>subulatum</i> (Hausskn.) Fern.		F
EPSA	<i>Epilobium saximontanum</i> Haussk.		F
EPIPA	<i>Epipactis</i> Sw.	ORCHID	
EPGI	<i>Epipactis gigantea</i> Dougl.		F
EQUIS	<i>Equisetum</i> L.	EQUISE	
EQAR	<i>Equisetum arvense</i> L.		L
EQFL	<i>Equisetum fluviatile</i> L.		L
EQHI	<i>Equisetum hiemale</i> L.		L
EQKA	<i>Equisetum kansanum</i> Schaffn.		L
EQSC	<i>Equisetum scirpooides</i> Michx.		L
EQSY	<i>Equisetum sylvaticum</i> L.		L
EQVA	<i>Equisetum variegatum</i> Schleich.		L
ERAGR	<i>Eragrostis</i> Beauv.	GRAMIN (FES)	
ERCI	<i>Eragrostis ciliaris</i> (All.) Lutati		G
ERIGE	<i>Erigeron</i> L.	COMPOS (AST)	
ERAC	<i>Erigeron acris</i> L.		F
ERAN	<i>Erigeron annuus</i> (L.) Pers.		F
ERBE	<i>Erigeron bellidiastrium</i> Nutt.		F
ERCA	<i>Erigeron caespitosus</i> Nutt.		F

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ERCA2	<i>Erigeron canadensis</i> (L.) Pers.		F
ERCA3	<i>Erigeron canus</i> Gray		F
ERCO	<i>Erigeron compositus</i> Pursh		F
ERDI	<i>Erigeron divergens</i> T. & G.		F
ERFL	<i>Erigeron flagellaris</i> Gray		F
ERGL	<i>Erigeron glabellus</i> Nutt.		F
ERLO	<i>Erigeron lonchophyllus</i> Hook.		F
ERNA	<i>Erigeron nanus</i> Nutt.		F
ERNE	<i>Erigeron nematophyllus</i> Rydb.		F
ERPH	<i>Erigeron philadelphicus</i> L.		F
ERPU	<i>Erigeron pumilus</i> Nutt.		F
ERSP	<i>Erigeron speciosus</i> (Lindl.) DC.		F
ERST	<i>Erigeron strigosus</i> Muhl.		F
ERSU	<i>Erigeron subtrinervis</i> Rydb.		F
ERIOG	<i>Eriogonum</i> Michx.	POLYGO	
ERAN2	<i>Eriogonum annuum</i> Nutt.		F
ERDE	<i>Eriogonum depauperatum</i> Small		S
EREF	<i>Eriogonum effusum</i> Nutt.		S
ERFL	<i>Eriogonum flavum</i> Nutt.		S
ERMU	<i>Eriogonum multiceps</i> Nees		S
ERPA	<i>Eriogonum pauciflorum</i> Pursh		S
ERIOP	<i>Eriophorum</i> L.	CYPER	
ERAN3	<i>Eriophorum angustifolium</i> Honckeny		G
ERODI	<i>Erodium</i> L'Her.	GERANI	
ERCI2	<i>Erodium cicutarium</i> (L.) L'Her.		F
ERYSI	<i>Erysimum</i> L.	CRUCIF	
ERAS	<i>Erysimum asperum</i> (Nutt.) DC.		F
ERCH	<i>Erysimum cheiranthoides</i> L.		F
ERIN	<i>Erysimum inconspicuum</i> (Wats.) MacMill.		F
EUPAT	<i>Eupatorium</i> L.	COMPOS (EUP)	
EUAL	<i>Eupatorium altissimum</i> L.		F
EUMA	<i>Eupatorium maculatum</i> L.		F
EUPHO	<i>Euphorbia</i> L.	EUPHOR	
EUCY	<i>Euphorbia cyparissias</i> L.		F
EUDE	<i>Euphorbia dentata</i> Michx.		F
EUDI	<i>Euphorbia dictyosperma</i> Fisch. & Mey.		F
EUES	<i>Euphorbia esula</i> L.		F
EUFE	<i>Euphorbia fendleri</i> T. & G.		F
EUGL	<i>Euphorbia glyptosperma</i> Engelm.		F
EUHE	<i>Euphorbia hexagona</i> Nutt.		F
EUMA2	<i>Euphorbia marginata</i> Pursh		F
EUMI	<i>Euphorbia missurica</i> Raf.		F
EUOB	<i>Euphorbia obtusata</i> Pursh		F
EURO	<i>Euphorbia robusta</i> (Engelm.) Small		F
EUSE	<i>Euphorbia serpyllifolia</i> Pers.		F
EUST	<i>Euphorbia strictospora</i> Engelm.		F
EUROT	<i>Eurotia</i> Adans.	CHENOP	
EULA	<i>Eurotia lanata</i> (Pursh) Moq.		S
EUSTO	<i>Eustoma</i> Salisb.	GENTIA	
EURU	<i>Eustoma russelianum</i> (Hook.) Griseb.		F

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EVOLV	<i>Evolvulus</i> L.	CONVOL	
EVPI	<i>Evolvulus pilosus</i> Nutt.		F
FESTU	<i>Festuca</i> L.	GRAMIN (FES)	
FEEL	<i>Festuca elatior</i> L.		G
FEID	<i>Festuca idahoensis</i> Elmer		G
FEOC	<i>Festuca octoflora</i> Walt.		G
FEOV	<i>Festuca ovina</i> L.		G
FEVI	<i>Festuca viridula</i> Vasey		G
FILAG	<i>Filago</i> L.	COMPOS (INN)	
FIPR	<i>Filago prolifera</i> (Nutt.) Britt.		F
FRAGA	<i>Fragaria</i> L.	ROSACE	
FROV	<i>Fragaria ovalis</i> (Lehm.) Rydb.		F
FRVE	<i>Fragaria vesca</i> L.		F
FRANS	<i>Franseria</i> Cav.	COMPOS (HEL)	
FRDI	<i>Franseria discolor</i> Nutt.		F
FRAXI	<i>Fraxinus</i> L.	OLEACE	
FRPE	<i>Fraxinus pennsylvanica</i> Marsh.		T
FRPES	<i>Fraxinus pennsylvanica</i> var. <i>subintegerrima</i> (Vahl) Fern.		T
FRITI	<i>Fritillaria</i> L.	LILIAC	
FRAU	<i>Fritillaria autopurpurea</i> Nutt.		F
GAILL	<i>Gaillardia</i> Fouq.	COMPOS (HEL2)	
GAAR	<i>Gaillardia aristata</i> Pursh		F
GAPU	<i>Gaillardia puchella</i> Fouq.		F
GALEO	<i>Galeopsis</i> L.	LABIAT	
GATE	<i>Galeopsis tetrahit</i> L.		F
GALIU	<i>Galium</i> L.	RUBIAC	
GAAP	<i>Galium aparine</i> L.		F
GABI	<i>Galium biflorum</i> Watson		F
GABO	<i>Galium boreale</i> L.		F
GATI	<i>Galium tinctorum</i> L.		F
GATR	<i>Galium triflorum</i> Michx.		F
GAURA	<i>Gaura</i> L.	ONAGRA	
GACO	<i>Gaura coccinea</i> Pursh		F
GACOG	<i>Gaura coccinea</i> var. <i>glabra</i> (Lehm.) T. & G.		F
GAPA	<i>Gaura parviflora</i> Dougl.		F
GAYOP	<i>Gayophytum</i> A. Juss.	ONAGRA	
GANU	<i>Gayophytum nuttallii</i> T. & G.		F
GARA	<i>Gayophytum racemosum</i> T. & G.		F
GARA2	<i>Gayophytum ramosissimum</i> T. & G.		F
GENTI	<i>Gentiana</i> L.	GENTIA	
GEAF	<i>Gentiana affinis</i> Griseb.		F
GEAN	<i>Gentiana andrewsii</i> Griseb.		F
GEPL	<i>Gentiana plebeia</i> Cham.		F
GEST	<i>Gentiana strictiflora</i> (Rydb.) A. Nels.		F
GERAN	<i>Geranium</i> L.	GERANI	
GEBI	<i>Geranium bicknellii</i> Britt.		F
GECO	<i>Geranium carolinianum</i> L.		F

<u>SYMBOL</u>	<u>GENERA - SPECIES - AUTHORITY</u>	<u>FAMILY</u>	<u>LIFE FORM</u>
GEPU	<i>Geranium pusillum</i> L.		F
GERI	<i>Geranium richardsonii</i> Fisch. & Trautv.		F
GEVI	<i>Geranium viscosissimum</i> Fisch. & Mey.		F
GERAR	<i>Gerardia</i> L.	SCROPH	
GETEM	<i>Gerardia tenuifolia</i> var. <i>macrophylla</i> Benth.		F
GEUM	<i>Geum</i> L.	ROSACE	
GEAL	<i>Geum aleppicum</i> Jacq.		F
GECA	<i>Geum canadense</i> Jacq.		F
GEMA	<i>Geum macrophyllum</i> Willd.		F
GERI2	<i>Geum rivale</i> L.		F
GETR	<i>Geum triflorum</i> Pursh		F
GILIA	<i>Gilia</i> R. & P.	POLEMO	
GICE	<i>Gilia cephaloidea</i> Rydb.		F
GICO	<i>Gilia congesta</i> Hook.		F
GISP	<i>Gilia spicata</i> Nutt.		F
GLECO	<i>Glecoma</i> L.	LABIAT	
GLHE	<i>Glecoma hederacea</i> L.		F
GLYCE	<i>Glyceria</i> R. Br.	GRAMIN (FES)	
GLGR	<i>Glyceria grandis</i> Wats.		G
GLPA	<i>Glyceria pauciflora</i> Presl		G
GLSE	<i>Glyceria septentrionalis</i> Hitchc.		G
GLST	<i>Glyceria striata</i> (Lam.) Hitchc.		G
GLYCY	<i>Glycyrrhiza</i> L.	FABACE	
GLLE	<i>Glycyrrhiza lepidota</i> Pursh		F
GNAPH	<i>Gnaphalium</i> L.	COMPOS (INU)	
GNEX	<i>Gnaphalium exilifolium</i> A. Nels.		F
GNPA	<i>Gnaphalium palustre</i> Nutt.		F
GNUL	<i>Gnaphalium uliginosum</i> L.		F
GNVI	<i>Gnaphalium viscosum</i> HBK.		F
GOODY	<i>Goodyera</i> R. Br.	ORCHID	
CODE	<i>Goodyera decipiens</i> (Hook.) Hubbard		F
GORE	<i>Goodyera repens</i> (L.) R. Br.		F
GRATTI	<i>Gratiola</i> L.	SCROPH	
GRNE	<i>Gratiola neglecta</i> Torr.		F
GRIND	<i>Grindelia</i> Willd.	COMPOS (AST)	
GRSQ	<i>Grindelia squarrosa</i> (Pursh) Dunal		F
GRSU	<i>Grindelia subalpina</i> Greene		F
GUTIE	<i>Gutierrezia</i> Lag.	COMPOS (AST)	
GUSA	<i>Gutierrezia sarothrae</i> (Pursh) Britt. & Rusby		F
GYMNO	<i>Gymnocarpium</i> Newm.	POLYPO	
GYDR	<i>Gymnocarpium dryopteris</i> (L.) Newm.		L
GYPSO	<i>Gypsophila</i> L.	CARYOP	
GYMU	<i>Gypsophila muralis</i> L.		F
GYPA	<i>Gypsophila paniculata</i> L.		F
HABEN	<i>Habeneria</i> Willd.	ORCHID	
HAACL	<i>Habenaria clavellata</i> (Michx.) Spreng.		F

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HADI	<i>Habenaria dilatata</i> (Pursh) Hook.		F
HAHY	<i>Habenaria hyperborea</i> (L.) R. Br.		F
HASA	<i>Habenaria saccata</i> Greene		F
HAUN	<i>Habenaria unalascensis</i> (Spreng.) Wats.		F
HAVI	<i>Habenaria viridis</i> (L.) R. Br.		F
HACKE	<i>Hackelia</i> Opiz.	BORAGI	
HAAM	<i>Hackelia americana</i> (Gray) Fern.		F
HAFL	<i>Hackelia floribunda</i> (Lehm.) I. M. Johnst.		F
HALE	<i>Hackelia leptophylla</i> (Rydb.) I. M. Johnst.		F
HAVI2	<i>Hackelia virginiana</i> (L.) I. M. Johnst.		F
HALEN	<i>Halenia</i> Borkh.	GENTIA	
HADE	<i>Halenia deflexa</i> (Smith) Griseb.		F
HAPLO	<i>Haplopappus</i> Cass.	COMPOS (AST)	
HAAM	<i>Haplopappus armerioides</i> (Nutt.) Gray		S
HAEN	<i>Haplopappus engelmannii</i> (Gray) Hall		S
HANU	<i>Haplopappus nuttallii</i> T. & G.		S
HASP	<i>Haplopappus spinulosus</i> (Pursh) DC.		S
HEDEO	<i>Hedeoma</i> Pers.	LIBIAT	
HEDR	<i>Hedeoma drummondii</i> Benth.		F
HEHI	<i>Hedeoma hispida</i> Pursh		F
HEPU	<i>Hedeoma pulegioides</i> (L.) Pers.		F
HEDYS	<i>Hedysarum</i> L.	FEBACE	
HEAL	<i>Hedysarum alpinum</i> L.		F
HEOC	<i>Hedysarum occidentale</i> Greene		F
HELIA2	<i>Helianthella</i> T. & G.	COMPOS (HEL)	
HEQU	<i>Helianthella quinquenervis</i> (Hook) Gray		F
HELIA3	<i>Helianthemum</i> Mill.	CISTAC	
HEBI	<i>Helianthemum bicknellii</i> Fern.		F
HELIA	<i>Helianthus</i> L.	COMPOS (HEL)	
HEAN	<i>Helianthus annuus</i> L.		F
HEGI	<i>Helianthus giganteus</i> L.		F
HEGR	<i>Helianthus grosseserratus</i> Martens		F
HELA2	<i>Helianthus laetiflorus</i> Pers.		F
HEMA	<i>Helianthus maximilliani</i> Schrad.		F
HENU	<i>Helianthus nuttallii</i> T. & G.		F
HEPE	<i>Helianthus petiolaris</i> Nutt.		F
HETU	<i>Helianthus tuberosus</i> L.		F
HELIC	<i>Helictotrichon</i> Besser	GRAMIN (AVE)	
HEHO	<i>Helictotrichon hookeri</i> (Scribn.) Henr.		G
HELIO	<i>Heliotropium</i> L.	BORAGI	
HESP	<i>Heliotropium spathulatum</i> Rydb.		F
HERAC	<i>Heracleum</i> L.	UMBELL	
HELA	<i>Heracleum lanatum</i> Michx.		F
HESPE2	<i>Hesperis</i> L.	CRUCIF	
HEMA	<i>Hesperis matronalis</i> L.		F
HESPE	<i>Hesperochloa</i> (Piper) Rydb.	GRAMIN (FES)	
HEKI	<i>Hesperochloa kingii</i> (Wats.) Rydb.		G

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HETER	<i>Heteranthera</i> R. & P.	PONTED	
HELI	<i>Heteranthera limosa</i> (Sw.) Willd.		F
HEUCH	<i>Heuchera</i> L.	SAXIFR	
HERI	<i>Heuchera richardsonii</i> R. Br.		F
HIBIS	<i>Hibiscus</i> L.	MALVAC	
HITR	<i>Hibiscus trionum</i> L.		F
HIERA	<i>Hieraceum</i> L.	COMPOS (CIC)	
HICA	<i>Hieraceum canadense</i> Michx.		F
HIFE	<i>Hieraceum fendleri</i> Schultz-Bip.		F
HIUM	<i>Hieraceum umbellatum</i> L.		F
HIERO	<i>Hierochloë</i> R. Br.	GRAMIN (PHA)	
HIOD	<i>Hierochloë odorata</i> (L.) Beauv.		G
HIPPU	<i>Hippuris</i> L.	HIPPUR	
HIVU	<i>Hippuris vulgaris</i> L.		F
HORDE	<i>Hordeum</i> L.	GRAMIN (HOR)	
HOJU	<i>Hordeum jubatum</i> L.		G
HOPU	<i>Hordeum pusillum</i> Nutt.		G
HOVU	<i>Hordeum vulgare</i> L.		
HUMUL	<i>Humulus</i> L.	MORACE	
HULU	<i>Humulus lupulus</i> L.		F
HYMEN	<i>Hymenopappus</i> L'Her.	COMPOS (HEL2)	
HYFI	<i>Hymenopappus filifolius</i> Hook.		F
HYTE	<i>Hymenopappus tenuifolius</i> Pursh		F
HYMEN2	<i>Hymenoxys</i> Cass.	COMPOS (HEL2)	
HYAC	<i>Hymenoxys acaulis</i> (Pursh) Parker		F
HYOSC	<i>Hyoscyamus</i> L.	SOLANA	
HYNI	<i>Hyoscyamus niger</i> L.		F
HYPER	<i>Hypericum</i> L.	HYPERI	
HYCA	<i>Hypericum canadense</i> L.		F
HYPE	<i>Hypericum perforatum</i> L.		
ILIAM	<i>Iliamna</i> Greene	MALVAC	
ILRI	<i>Iliamna rivularis</i> (Dougl.) Greene		F
IMPAT	<i>Impatiens</i> L.	BALSAM	
IMBI	<i>Impatiens biflora</i> Willd.		F
IPOMO	<i>Ipomoea</i> L.	CONVOL	
IPLE	<i>Ipomoea leptophylla</i> Torr.		F
IRIS	<i>Iris</i> L.	IRIDAC	
IRMI	<i>Iris missouriensis</i> Nutt.		F
IVA	<i>Iva</i> L.	COMPOS (HEL)	
IVAX	<i>Iva axillaris</i> Pursh		F
IVXA	<i>Iva xanthifolia</i> Nutt.		F
JUGLA	<i>Juglans</i> L.	JUGLAN	
JUNI	<i>Juglans nigra</i> L.		T

<u>SYMBOL</u>	<u>GENERA - SPECIES - AUTHORITY</u>	<u>FAMILY</u>	<u>LIFE FORM</u>
JUNCU	<i>Juncus</i> L.	JUNCAC	
JUAC	<i>Juncus acuminatus</i> Michx.		G
JUBA	<i>Juncus balticus</i> Willd.		G
JUBU	<i>Juncus bufonius</i> L.		G
JUCO2	<i>Juncus confusus</i> Cov.		G
JUEN	<i>Juncus ensifolius</i> Wikst.		G
JUIN	<i>Juncus interior</i> Wieg.		G
JULO	<i>Juncus longistylis</i> Torr.		G
JUNO	<i>Juncus nodosus</i> L.		G
JUPL	<i>Juncus platyphyllus</i> (Wieg.) Fern.		G
JUSA	<i>Juncus saximontanus</i> A. Nels.		G
JUTE	<i>Juncus tenuis</i> Willd.		
JUTED	<i>Juncus tenuis</i> var. <i>dudleyi</i> (Weig.) F. J. Herm.		G
JUTO	<i>Juncus torreyi</i> Cov.		G
JUVA	<i>Juncus vaseyi</i> Engelm.		G
JUNIP	<i>Juniperus</i> L.	CUPRES	
JUCO	<i>Juniperus communis</i> L.		S
JUHO	<i>Juniperus horizontalis</i> Moench		S
JUSC	<i>Juniperus scopulorum</i> Sarg.		T
KOCHI	<i>Kochia</i> Roth	CHENOP	
KOSC	<i>Kochia scoparia</i> (L.) Schrad.		F
KOELR	<i>Koeleria</i> Pers.	GRAMIN (AVE)	
KOCR	<i>Koeleria cristata</i> (L.) Pers.		G
KUHNI	<i>Kuhnia</i> L.	COMPOS (EUP)	
KUEU	<i>Kuhnia eupatorioides</i> L.		F
KULE	<i>Kuhnia leptophylla</i> Scheele		F
LACTU	<i>Lactuca</i> L.	COMPOS (CIC)	
LABI	<i>Lactuca biennis</i> (Moench) Fern.		F
LACA	<i>Lactuca canadensis</i> L.		F
LALU	<i>Lactuca ludoviciana</i> (Nutt.) DC.		F
LAPU	<i>Lactuca pulchella</i> (Pursh) DC.		F
LASC	<i>Lactuca scariola</i> L.		F
LAMIU	<i>Lamium</i> L.	LABIAT	
LAAM	<i>Lamium amplexicaule</i> L.		F
LAPUL	<i>Lappula</i> Moench	BORAGI	
LAFR	<i>Lappula fremontii</i> (Torr.) Greene		F
LARE	<i>Lappula redowskii</i> (Hornem.) Greene		F
LATHY	<i>Lathyrus</i> L.	FABACE	
LAOC	<i>Lathyrus ochroleucus</i> Hook.		F
LAPO	<i>Lathyrus polymorphus</i> Nutt.		F
LECHE	<i>Lechea</i> L.	CISTAC	
LETE	<i>Lechea tenuifolia</i> Michx.		F
LEMNA	<i>Lemma</i> L.	LENNAC	
LEMI	<i>Lemma minor</i> L.		F
LEPID	<i>Lepidium</i> L.	CRUCIF	
LEDE	<i>Lepidium densiflorum</i> Schrad.		F
LESQU	<i>Lesquerella</i> Watson	CRUCIF	
LEAL	<i>Lesquerella alpina</i> (Nutt.) Wats.		F

<u>SYMBOL</u>	<u>GENERA - SPECIES - AUTHORITY</u>	<u>FAMILY</u>	<u>LIFE FORM</u>
LEAR	<i>Lesquerella arenosa</i> (Richards.) Rydb.		F
LELU	<i>Lesquerella ludoviciana</i> (Nutt.) Wats.		F
LEMO2	<i>Lesquerella montana</i> (Gray) Wats.		F
LESP	<i>Lesquerella spatulata</i> Rydb.		F
LEUCO	<i>Leucocrinum</i> Nutt.	LILIAC	
LEMO	<i>Leucocrinum montanum</i> Nutt.		F
LIATR	<i>Liatris</i> Schreb.	COMPOS (EUP)	
LILI	<i>Liatris ligulistylis</i> (A. Nels.) K. Schum.		F
LIPU	<i>Liatris punctata</i> Hook.		F
LILIU	<i>Lilium</i> L.	LILIAC	
LIPH	<i>Lilium philadelphicum</i> L.		F
LIMOS	<i>Limosella</i> L.	SCROPH	
LIAQ	<i>Limosella aquatica</i> L.		F
LINAN	<i>Linanthus</i> Benth.	POLEMO	
LIHA	<i>Linanthus harknesii</i> (Curran) Greene		
LINAR	<i>Linaria</i> Mill.	SCROPH	F
LICA	<i>Linaria canadensis</i> (L.) Dum.		
LIVU	<i>Linaria vulgaris</i> Hill		F
LINNA	<i>Linnaea</i> Gron.	CAPRIF	
LIBO	<i>Linnaea borealis</i> L.		F
LINUM	<i>Linum</i> L.	LINACE	
LIBE	<i>Linum berlandieri</i> Hook.		F
LICO	<i>Linum compactum</i> A. Nels.		F
LILE	<i>Linum lewisii</i> Pursh		F
LIRI	<i>Linum rigidum</i> Pursh		F
LITHO	<i>Lithophragma</i> Nutt.	SAXIFR	
LIBU	<i>Lithophragma bulbifera</i> Rydb.		F
LIPA	<i>Lithophragma parviflora</i> (Hook.) Nutt.		F
LITE	<i>Lithophragma tenella</i> Nutt.		F
LITHO	<i>Lithospermum</i> L.	BORAGI	
LIAR	<i>Lithospermum arvense</i> L.		F
LICA	<i>Lithospermum carolinense</i> (Walt.) MacMill.		F
LIIN	<i>Lithospermum incisum</i> Lehm.		F
LIRU	<i>Lithospermum ruderale</i> Dougl.		F
LOBEL	<i>Lobelia</i> L.	LOBELI	
LOKA	<i>Lobelia kalmii</i> L.		F
LOSI	<i>Lobelia siphilitica</i> L.		F
LOSP	<i>Lobelia spicata</i> Lam.		F
LOLIU	<i>Lolium</i> L.	GRAMIN (HOR)	
LOPE	<i>Lolium perenne</i> L.		G
LOMAT	<i>Lomatium</i> Raf.	UMBELL	
LOFO	<i>Lomatium foeniculaceum</i> (Nutt.) Coul. & Rose		F
LOMA	<i>Lomatium macrocarpum</i> (H. & A.) Coul. & Rose		F
LOMO	<i>Lomatium montanum</i> Coul. & Rose		F
LONU	<i>Lomatium nuttallii</i> (Gray) Macbr.		F
LOOR	<i>Lomatium orientale</i> Coul. & Rose		F
LONIC	<i>Lonicera</i> L.	CAPRIF	
LODI	<i>Lonicera dioica</i> L.		S

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LOTUS	<i>Lotus</i> L.	FABACE	
LOAM	<i>Lotus americanus</i> (Nutt.) Bisch.		F
LUPIN	<i>Lupinus</i> L.	FABACE	
LUAR	<i>Lupinus argenteus</i> Pursh		F
LUPA	<i>Lupinus parviflorus</i> Nutt.		F
LUPU	<i>Lupinus pusillus</i> Pursh		F
LUSE	<i>Lupinus sericeus</i> Pursh		F
LUZUL	<i>Luzula</i> DC.	JUNCAC	
LUIN	<i>Luzula intermedia</i> (Thuill.) Spenner		G
LYCHN	<i>Lychnis</i> L.	CARYOP	
LYAL	<i>Lychnis alba</i> Mill.		F
LYDR	<i>Lychnis drummondii</i> (Hook.) Watson		F
LYCIU	<i>Lycium</i> L.	SOLANA	
LYHA	<i>Lycium halimifolium</i> Mill.		F
LYCOP2	<i>Lycopodium</i> L.	LYCOPO	
LYOB	<i>Lycopodium obscurum</i> L.		L
LYCOP	<i>Lycopus</i> L.	LABIAT	
LYAM	<i>Lycopus americanus</i> Muhl.		F
LYAS	<i>Lycopus asper</i> Greene		F
LYUN	<i>Lycopus uniflorus</i> Michx.		F
LYGOD	<i>Lygodesmia</i> D. Don	COMPOS (CIC)	
LYJU	<i>Lygodesmia juncea</i> (Pursh) D. Don		F
MADIA	<i>Madia</i> Molina	COMPOS (HEL)	
MAGL	<i>Madia glomerata</i> Hook.		F
MAIAN	<i>Maianthemum</i> Weber	LILIAC	
MACA	<i>Maianthemum canadense</i> Desf.		F
MALVA	<i>Malva</i> L.	MALVAC	
MARO	<i>Malva rotundifolia</i> L.		F
MARRU	<i>Marrubium</i> L.	SOLANA	
MAVU	<i>Marrubium vulgare</i> L.		F
MARSI	<i>Marsilea</i> L.	MARSIL	
MAMU	<i>Marsilea mucronata</i> A. Br.		L
MATRI	<i>Matricaria</i> L.	COMPOS (ANT)	
MAMA	<i>Matricaria matricarioides</i> (Less.) Porter		F
MATTE	<i>Matteuccia</i> Todaro	POLYPO	
MAST	<i>Matteuccia struthiopteris</i> (L.) Todaro		L
MEDIC	<i>Medicago</i> L.	FEBACE	
MEFA	<i>Medicago falcata</i> L.		F
MELU	<i>Medicago lupulina</i> L.		F
MESA	<i>Medicago sativa</i> L.		F
MELIC	<i>Melica</i> L.	GRAMIN (FES)	
MEBU	<i>Melica bulbosa</i> Geyer ex Port. & Coul.		G
MESM	<i>Melica smithii</i> (Porter) Vasey		G

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MELIL	<i>Melilotus</i> Mill.	FABACE	
MEAL	<i>Melilotus alba</i> Desr.		F
MEOF	<i>Melilotus officinalis</i> (L.) Lam.		F
MENTH	<i>Mentha</i> L.	LABIAT	
MEAR	<i>Mentha arvensis</i> L.		F
MENTZ	<i>Mentzelia</i> L.	LOASAC	
MEAL2	<i>Mentzelia albicaulis</i> Dougl.		F
MEDE	<i>Mentzelia decapetala</i> (Pursh) Urban & Gilg.		F
MEDI	<i>Mentzelia dispersa</i> Wats.		F
MENU	<i>Mentzelia nuda</i> (Pursh) T. & G.		F
MEOL	<i>Mentzelia oligosperma</i> Nutt.		F
MENYA	<i>Menyanthes</i> L.	GENTIA	
METR	<i>Menyanthes trifoliata</i> L.		F
MERTE	<i>Mertensia</i> L.	LABIAT	
MELA	<i>Mertensia lanceolata</i> (Pursh) A. DC.		F
MEOB	<i>Mertensia oblongifolia</i> (Nutt.) G. Don		F
MEPA	<i>Mertensia paniculata</i> (Ait.) G. Don		F
MICRO	<i>Microseris</i> D. Don	COMPOS (CIC)	
MICU	<i>Microseris cuspidata</i> (Pursh) Schultz-Bip.		F
MICRO2	<i>Microsteris</i> Greene	POLEMO	
MIHU	<i>Microsteris humilis</i> (Dougl.) Greene		F
MIMUL	<i>Mimulus</i> L.	SCROPH	
MIFL	<i>Mimulus floribundus</i> Dougl.		F
MIGL	<i>Mimulus glabratus</i> HBK.		F
MIGU	<i>Mimulus guttatus</i> DC.		F
MOLDA	<i>Moldavica</i> Adans.	LABIAT	
MOPA	<i>Moldavica parviflora</i> (Nutt.) Britt.		F
MOLLU	<i>Mollugo</i> L.	AZIOAC	
MOVE	<i>Mollugo verticillata</i> L.		F
MONAR	<i>Monarda</i> L.	LABIAT	
MOFI	<i>Monarda fistulosa</i> L.		F
MOFIN	<i>Monarda fistulosa</i> var. <i>menthaefolia</i> (Grah.) Fern.		F
MOPE	<i>Monarda pectinata</i> Nutt.		F
MONES	<i>Moneses</i> Salisb.	ERICAC	
MOUN	<i>Moneses uniflora</i> (L.) Gray		F
MONOL	<i>Monolepis</i> Schrad.	CHENOP	
MONU	<i>Monolepis nuttalliana</i> (Schultes) Engelm.		F
MONTI	<i>Montia</i> L.	PORTUL	
MOPE2	<i>Montia perfoliata</i> Donn.		F
MUHLE	<i>Muhlenbergia</i> Schreb.	GRAMIN (AGR)	
MUAN	<i>Muhlenbergia andina</i> (Nutt.) Hitchc.		G
MUAS	<i>Muhlenbergia asperifolia</i> (Nees & Mey.) Parodi		G
MUCU	<i>Muhlenbergia cuspidata</i> (Torr.) Rydb.		G
MUME	<i>Muhlenbergia mexicana</i> (L.) Trin.		G
MURA	<i>Muhlenbergia racemosa</i> (Michx.) B.S.P.		G
MURI	<i>Muhlenbergia richardsonis</i> (Trin.) Rydb.		G

<u>SYMBOL</u>	<u>GENERA - SPECIES - AUTHORITY</u>	<u>FAMILY</u>	<u>LIFE FORM</u>
MUNRO	<i>Munroa</i> Torr.	GRAMIN (CHL)	
MUSQ	<i>Munroa squarrosa</i> (Nutt.) Torr.		G
MUSIN	<i>Musineon</i> Raf.	UMBELL	
MUDI	<i>Musineon divaricatum</i> (Pursh) Nutt.		F
MUTE	<i>Musineon tenuifolium</i> Nutt.		F
MYOSO	<i>Myosotis</i> L.	BORAGI	
MYAL	<i>Myosotis alpestris</i> Schmidt		F
MYMA	<i>Myosotis macrosperma</i> Engelm.		F
MYSC	<i>Myosotis scorpioides</i> L.		F
MYOSU	<i>Myosurus</i> L.	RANUNC	
MYMI	<i>Myosurus minimus</i> L.		F
NAJAS	<i>Najas</i> L.	NAJADA	
NAFL	<i>Najas flexilis</i> (Willd.) Rostk. & Schmidt		F
NASTU	<i>Nasturtium</i> R. Br.	CRUCIF	
NAOF	<i>Nasturtium officinale</i> R. Br.		F
NAUMB	<i>Naumburgia</i> Moench.	PRIMUL	
NATH	<i>Naumburgia thyrsiflora</i> (L.) Duby		F
NEPET	<i>Nepeta</i> L.	LABIAT	
NECA	<i>Nepeta cataria</i> L.	LABIAT	
NUPHA	<i>Nuphar</i> Smith	NYMPHA	
NUPO	<i>Nuphar polysepalum</i> Engelm.		F
OENOT	<i>Oenothera</i> L.	ONAGRA	
OEAL	<i>Oenothera albicaulis</i> Pursh		F
OEBI	<i>Oenothera biennis</i> L.		F
OECA	<i>Oenothera caespitosa</i> Nutt.		F
OECAE	<i>Oenothera caespitosa</i> var. <i>exima</i> (Gray) Munz		F
OEKO	<i>Oenothera coronopifolia</i> T. & G.		F
OEFL	<i>Oenothera flava</i> (A. Nels.) Garrett		F
OELA	<i>Oenothera laciniata</i> Hill		F
OELA2	<i>Oenothera latifolia</i> (Rydb.) Munz		F
OELA3	<i>Oenothera lavandulaefolia</i> T. & G.		F
OENU	<i>Oenothera nuttallii</i> Sweet		F
OEPA	<i>Oenothera parviflora</i> L.		F
OESE	<i>Oenothera serrulata</i> Nutt.		F
OEST	<i>Oenothera strigosa</i> (Rydb.) Mack. & Bush		F
ONOBR	<i>Onobrychis</i> Scop.	FABACE	
ONVI	<i>Onobrychis viciaefolia</i> Scop.		F
ONOCL	<i>Onoclea</i> L.	POLYPO	
ONSE	<i>Onoclea sensibilis</i> L.		L
ONOSM	<i>Onosmodium</i> Michx.	BORAGI	
ONOC	<i>Onosmodium occidentalis</i> Mack.		F
OPUNT	<i>Opuntia</i> Mill.	CACTAC	
OPFR	<i>Opuntia fragilis</i> (Nutt.) Haw.		F
OPPO	<i>Opuntia polyacantha</i> Haw.		F
OPTO	<i>Opuntia tortispina</i> Engelm.		F

<u>SYMBOL</u>	<u>GENERA - SPECIES - AUTHORITY</u>	<u>FAMILY</u>	<u>LIFE FORM</u>
OROBA	<i>Orobanche</i> L.	OROBAC	
ORFA	<i>Orobanche fasciculata</i> Nutt.		F
ORLU2	<i>Orobanche ludoviciana</i> Nutt.		F
ORTHO	<i>Orthocarpus</i> Nutt.	SCROPH	
ORLU	<i>Orthocarpus luteus</i> Nutt.		F
ORYZO	<i>Oryzopsis</i> Michx.	GRAMIN (AGR)	
ORAS	<i>Oryzopsis asperifolia</i> Michx.		G
ORCA	<i>Oryzopsis canadensis</i> (Poir.) Torr.		G
ORHY	<i>Oryzopsis hymenoides</i> (R. & S.) Ricker		G
ORMI	<i>Oryzopsis micrantha</i> (Trin. & Rupr.) Thurb.		G
ORPU	<i>Oryzopsis pungens</i> (Torr.) Hitchc.		G
ORRA	<i>Oryzopsis racemosa</i> (J. E. Smith) Ricker		G
OSMOR	<i>Osmorrhiza</i> Raf.	UMBELL	
OSCH	<i>Osmorrhiza chilensis</i> H. & A.		F
OSLO	<i>Osmorrhiza longistylis</i> (Torr.) DC.		F
OSOB	<i>Osmorrhiza obtusa</i> (Coulter. & Rose) Fern.		F
OSTRY	<i>Ostrya</i> Scop.	BETULA	
OSVI	<i>Ostrya virginiana</i> (Mill.) K. Koch		S
OXALI	<i>Oxalis</i> L.	OXALID	
OXEU	<i>Oxalis europaea</i> Jord.		F
OXRE	<i>Oxalis repens</i> Thunb.		F
OXST	<i>Oxalis stricta</i> L.		F
OXVI	<i>Oxalis violacea</i> L.		F
OXYBA	<i>Oxybaphus</i> L'Her.	NYCTAG	
OXHI	<i>Oxybaphus hirsutus</i> (Pursh) Sweet		F
OXLI	<i>Oxybaphus linearis</i> (Pursh) Robins.		F
OXNY	<i>Oxybaphus nyctagineus</i> (Michx.) Sweet		F
OXYPO	<i>Oxypolis</i> Raf.	FABACE	
OXFE	<i>Oxypolis fendleri</i> (Gray) A. Heller		F
OXYTR	<i>Oxytropis</i> DC.	FABACE	
OXCAG	<i>Oxytropis campestris</i> (L.) DC. var. <i>glaberrata</i> Hook.		F
OXDE	<i>Oxytropis deflexa</i> (Pall.) DC.		F
OXLA	<i>Oxytropis lambertii</i> Pursh		F
OXMA	<i>Oxytropis macounii</i> (Greene) Rydb.		F
OXMO	<i>Oxytropis monticola</i> Gray		F
OXSE	<i>Oxytropis sericea</i> Nutt.		F
OXVI2	<i>Oxytropis villosa</i> (Rydb.) K. Schum.		F
PANIC	<i>Panicum</i> L.	GRAMIN (PAN)	
PACA	<i>Panicum cappillare</i> L.		G
PADE	<i>Panicum depauperatum</i> Muhl.		G
PAHU	<i>Panicum huachucae</i> Ashe		G
PALI	<i>Panicum liebergii</i> (Vasey) Scribn.		G
PAMI	<i>Panicum miliaceum</i> L.		G
PAPE	<i>Panicum perlongum</i> Nash		G
PASC	<i>Panicum scribnerianum</i> Nash		G
PAVI	<i>Panicum virgatum</i> L.		G
PAWI	<i>Panicum wilcoxianum</i> Vasey		G
PARIE	<i>Parietaria</i> L.	MORACE	
PAPE2	<i>Parietaria pensylvanica</i> Muhl.		F

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PARNA	<i>Parnassia</i> L.	SAXIFR	
PAPA	<i>Parnassia parviflora</i> DC.		F
PARON	<i>Paronychia</i> Mill.	CARYOP	
PADE2	<i>Paronychia depressa</i> Nutt.		F
PAJA	<i>Paronychia jamesii</i> T. & G.		F
PASE	<i>Paronychia sessiliflora</i> Nutt.		F
PARTH	<i>Parthenocissus</i> Planch.	VITACA	
PAQU	<i>Parthenocissus quinquefolia</i> (L.) Planch.		F
PAVI2	<i>Parthenocissus vitacea</i> (Knerr) Hitchc.		F
PASTI	<i>Pastinaca</i> L.	UMBELL	
PASA	<i>Pastinaca sativa</i> L.		F
PEDIC	<i>Pedicularis</i> L.	SCROPH	
PEGR3	<i>Pedicularis grayi</i> A. Nels.		F
PELLA	<i>Pellaea</i> Link	POLYPO	
PEAT	<i>Pellaea atropurpurea</i> (L.) Link		L
PEGL2	<i>Pellaea glabella</i> Mett.		L
PENST	<i>Penstemon</i> Mitchell	SCROPH	
PEAL	<i>Penstemon albidus</i> Nutt.		F
PEAL2	<i>Penstemon alpinus</i> Torr.		F
PEAN	<i>Penstemon angustifolius</i> Nutt.		F
PECL	<i>Penstemon cleburnii</i> A. Nels.		F
PEER	<i>Penstemon eriantherus</i> Pursh		F
PEGL	<i>Penstemon glaber</i> Pursh		F
PEGR	<i>Penstemon gracilis</i> Nutt.		F
PEGR2	<i>Penstemon grandiflorus</i> Nutt.		F
PEJA	<i>Penstemon jamesii</i> Benth.		F
PENI	<i>Penstemon nitidus</i> Dougl.		F
PERA	<i>Penstemon radicosus</i> A. Nels.		F
PERID	<i>Perideridia</i> Reichenb.	UMBELL	
PEGA	<i>Perideridia gairdneri</i> (H. & A.) Mathias		F
PETAL	<i>Petalostemon</i> Michx.	FABACE	
PECA	<i>Petalostemon canadidum</i> (Willd.) Michx.		F
PECO	<i>Petalostemon compactum</i> (Spreng.) Swezey		F
PEPU	<i>Petalostemon purpureum</i> (Vent.) Rydb.		F
PEPUM	<i>Petalostemon purpureum</i> var. <i>mollis</i> (Rydb.) A. Nels.		F
PETAS	<i>Petasites</i> L.	COMPOS (SEN)	
PESA	<i>Petasites sagittatus</i> (Pursh) Gray		F
PHACE	<i>Phacelia</i> Juss.	HYDROP	
PHHE	<i>Phacelia heterophylla</i> Pursh		F
PHLI	<i>Phacelia linearis</i> (Pursh) Holz.		F
PHALA	<i>Phalaris</i> L.	GRAMIN (PHA)	
PHAR	<i>Phalaris arundinacea</i> L.		G
PHLEU	<i>Phleum</i> L.	GRAMIN (AGR)	
PHAL	<i>Phleum alpinum</i> L.		G
PHPR	<i>Phleum pratense</i> L.		G

<u>SYMBOL</u>	<u>GENERA - SPECIES - AUTHORITY</u>	<u>FAMILY</u>	<u>LIFE FORM</u>
PHLOX	<i>Phlox</i> L.	POLEMO	
PHAL2	<i>Phlox alyssifolia</i> Greene		F
PHAN	<i>Phlox andicola</i> (Britt.) E. Nels.		F
PHHO	<i>Phlox hoodii</i> Richards.		F
PHKE	<i>Phlox kelseyi</i> Britt.		F
PHKEV	<i>Phlox kelseyi</i> ssp. <i>variabilis</i> (Brand) Wherry		F
PHRAG	<i>Phragmites</i> Trin.	GRAMIN (FES)	
PHCO	<i>Phragmites communis</i> Trin.		G
PHRYM	<i>Phryma</i> L.	PHRYMA	
PHLE	<i>Phryma leptostachya</i> L.		F
PHYSA	<i>Physalis</i> L.	SOLANA	
PHGR	<i>Physalis grandiflora</i> Hook.		F
PHHE	<i>Physalis hederaefolia</i> Gray		F
PHHE	<i>Physalis heterophylla</i> Nees.		F
PHLA	<i>Physalis lanceolata</i> Michx.		F
PHLO	<i>Physalis longifolia</i> Nutt.		F
PHPU	<i>Physalis pumila</i> Nutt.		F
PHVI	<i>Physalis virginiana</i> Mill.		F
PHYSO	<i>Physocarpus</i> Maxin.	ROSACE	
PHMO	<i>Physocarpus monogynus</i> (Torr.) Coulter.		S
PHOP	<i>Physocarpus opulifolius</i> (L.) Maxim.		
PICEA	<i>Picea</i> A. Dietr.	PINACE	
PIGL	<i>Picea glauca</i> (Moench) Voss		T
PINUS	<i>Pinus</i> L.	PINACE	
PICOL	<i>Pinus contorta</i> var. <i>latifolia</i> Engelm.		T
PIFL	<i>Pinus flexilis</i> James		T
PIPO	<i>Pinus ponderosa</i> Lawson		T
PLAGI	<i>Plagiobothrys</i> Fisch. & Mey.	BORAGI	
PLSC	<i>Plagiobothrys scopolorum</i> (Greene) Johnst.		F
PLANT	<i>Plantago</i> L.	PLANTA	
PLAR	<i>Plantago aristata</i> Michx.		F
PLAS	<i>Plantago asiatica</i> L.		F
PLEL	<i>Plantago elongata</i> Pursh		F
PLER	<i>Plantago eriopoda</i> Torr.		F
PLMA	<i>Plantago major</i> L.		F
PLPU	<i>Plantago purshii</i> R. & S.		F
PLRU	<i>Plantago rugellii</i> Decne.		F
POA	<i>Poa</i> L.	GRAMIN (FES)	
POAL	<i>Poa alpina</i> L.		G
POAL2	<i>Poa alsodes</i> Gray		G
POAM	<i>Poa ampla</i> Merr.		G
POAN2	<i>Poa annua</i> L.		G
POAR3	<i>Poa arida</i> Vasey		G
POCA	<i>Poa canbyi</i> (Scribn.) Piper		G
POCO	<i>Poa compressa</i> L.		G
POFE	<i>Poa fendleriana</i> (Steud.) Vasey		G
POGL2	<i>Poa glaucifolia</i> Scribn. & Williams		G
POIN	<i>Poa interior</i> Rydb.		G
POLO	<i>Poa longiligula</i> Scribn. & Williams		G
POPA	<i>Poa palustris</i> L.		G
POPR	<i>Poa pratensis</i> L.		G
POSE	<i>Poa secunda</i> Presl		G

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POLAN	<i>Polanisia</i> Raf.	CAPPAR	
POTR2	<i>Polanisia trachysperma</i> T. & G.		F
POLYG	<i>Polygala</i> L.	POLYGA	
POAL3	<i>Polygala alba</i> Nutt.		F
POSE2	<i>Polygala senega</i> L.		F
POVE	<i>Polygala verticillata</i> L.		F
POLYG2	<i>Polygonatum</i> Mill.	LILIAC	
POCA4	<i>Polygonatum canaliculatum</i> (Muhl.) Pursh		F
POLYG3	<i>Polygonum</i> L.	POLYGO	
POAV	<i>Polygonum aviculare</i> L.		F
POCO2	<i>Polygonum coccineum</i> Muhl.		F
POCOT	<i>Polygonum coccineum</i> var. <i>terrestre</i> Muhl.		F
POCO3	<i>Polygonum convolvulus</i> L.		F
PODO	<i>Polygonum douglasii</i> Greene		F
POER	<i>Polygonum erectum</i> L.		F
POLA	<i>Polygonum lapathifolium</i> L.		F
PONA	<i>Polygonum natans</i> Eat.		F
POPE	<i>Polygonum pensylvanicum</i> L.		F
POPE2	<i>Polygonum persicaria</i> L.		F
POPR2	<i>Polygonum prolificum</i> (Small) Robins.		F
POPU	<i>Polygonum punctatum</i> Ell.		F
PORA	<i>Polygonum ramosissimum</i> Michx.		F
POSA2	<i>Polygonum sawatchense</i> Small		F
POSC	<i>Polygonum scandens</i> L.		F
POSP	<i>Polygonum spargulariaeforme</i> Meissn.		F
POVI2	<i>Polygonum viviparum</i> L.		F
POLYP	<i>Polypodium</i> L.	POLYPO	
POHE	<i>Polypodium hesperium</i> Maxon		L
POVU	<i>Polypodium vulgare</i> L.		L
POPUL	<i>Populus</i> L.	SALICA	
POAC	<i>Populus acuminata</i> Rydb.		T
POAL4	<i>Populus alba</i> L.		T
POAN3	<i>Populus angustifolia</i> James		T
POBA	<i>Populus balsamifera</i> L.		T
POCA3	<i>Populus candicans</i> Michx.		T
POSA	<i>Populus sargentii</i> Dode		T
POTR	<i>Populus tremuloides</i> Michx.		T
POTAM	<i>Potamogeton</i> L.	NAJADA	
POAL5	<i>Potamogeton alpinus</i> Balbis		F
POFI2	<i>Potamogeton filiformis</i> Pers.		F
POFO	<i>Potamogeton foliosus</i> Raf.		F
POGR2	<i>Potamogeton gramineus</i> L.		F
POPE3	<i>Potamogeton pectinatus</i> L.		F
POPR3	<i>Potamogeton praelongus</i> Wulf		F
PORI2	<i>Potamogeton richardsonii</i> (A. Bennett) Rydb.		F
POTEN	<i>Potentilla</i> L.	ROSACE	
POAM2	<i>Potentilla ambigens</i> Greene		F
POAN	<i>Potentilla anserina</i> L.		F
POAR	<i>Potentilla arguta</i> Pursh		F
POAR2	<i>Potentilla argyrea</i> Rydb.		F
POBI	<i>Potentilla biennis</i> Greene		F
POCA2	<i>Potentilla camporum</i> Rydb.		F

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POCO4	<i>Potentilla concinna</i> Richards.		F
PODI	<i>Potentilla diversifolia</i> Lehm.		F
POEF	<i>Potentilla effusa</i> Dougl.		F
POFI	<i>Potentilla fissa</i> Nutt.		F
POFR	<i>Potentilla fruticosa</i> L.		S
POGL	<i>Potentilla glandulosa</i> Lindl.		F
POGR	<i>Potentilla gracilis</i> Dougl.		F
POHI	<i>Potentilla hippiana</i> Lehm.		F
POLE	<i>Potentilla leucocarpa</i> Rydb.		F
PONO	<i>Potentilla norvegica</i> L.		F
POPE4	<i>Potentilla pectinisepta</i> Rydb.		F
POPE5	<i>Potentilla pensylvanica</i> L.		F
POPL	<i>Potentilla plattensis</i> Nutt.		F
POQU	<i>Potentilla quinquefolia</i> Rydb.		F
PORI	<i>Potentilla rivalis</i> Nutt.		F
POVI	<i>Potentilla viridescens</i> Rydb.		F
PRENA	<i>Prenanthes</i> L.	COMPOS (CIC)	
PRAS	<i>Prenanthes aspera</i> Michx.		F
PRRA	<i>Prenanthes racemosa</i> Michx.		F
PRUNE	<i>Prunella</i> L.	LABIAT	
PRVU	<i>Prunella vulgaris</i> L.		F
PRNUU	<i>Prunus</i> L.	ROSACE	
PRAM	<i>Prunus americana</i> Marsh.		S
PRDE	<i>Prunus demissa</i> (Nutt.) Walp.		S
PRPE	<i>Prunus pensylvanica</i> L.		S
PRPU	<i>Prunus pumila</i> L.		S
PRVI	<i>Prunus virginiana</i> L.		S
PSORA	<i>Psoralea</i> L.	FABACE	
PSAR	<i>Psoralea argophylla</i> Pursh		F
PSCU	<i>Psoralea cuspidata</i> Pursh		F
PSDI	<i>Psoralea digitata</i> Nutt.		F
PSES	<i>Psoralea esculenta</i> Pursh		F
PSLA	<i>Psoralea lanceolata</i> Pursh		F
PSLI	<i>Psoralea lineariflora</i> T. & G.		F
PSTE	<i>Psoralea tenuiflora</i> Pursh		F
PTERI	<i>Pteridium</i> Gled.	POLYPO	
PTAQ	<i>Pteridium aquilinum</i> (L.) Kuhn		L
PTERO	<i>Pterospora</i> Nutt.	ERICA	
PTAN	<i>Pterospora andromedea</i> Nutt.		F
PTERY	<i>Pteryxia</i> Nutt.	UMBELL	
PTANZ	<i>Pteryxia anisata</i> (Gray) Math. & Const.		F
PUCCI	<i>Puccinellia</i> Parl.	GRAMIN (FES)	
PUAI	<i>Puccinellia airoides</i> (Nutt.) Wats. & Coult.		G
PURSH	<i>Purshia</i> DC.	ROSACE	
PUTR	<i>Purshia tridentata</i> (Pursh) DC.		S
PYROL	<i>Pyrola</i> L.	ERICAC	
PYAS	<i>Pyrola asarifolia</i> Michx.		F
PYASP	<i>Pyrola asarifolia</i> var. <i>purpurea</i> (Bunge) Fern.		F
PYEL	<i>Pyrola elliptica</i> Nutt.		F

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PYMI	<i>Pyrola minor</i> L.		F
PYPI	<i>Pyrola picta</i> Smith		F
PYRO	<i>Pyrola rotundifolia</i> L.		F
PYSE	<i>Pyrola secunda</i> L.		F
PYVI	<i>Pyrola virens</i> Schweigg.		F
QUERC	<i>Quercus</i> L.	FAGACE	
QUMA	<i>Quercus macrocarpa</i> Michx.		T
RANUN	<i>Ranunculus</i> L.	RANUNC	
RAAB	<i>Ranunculus abortivus</i> L.		F
RAAC	<i>Ranunculus acris</i> L.		F
RAAQ	<i>Ranunculus aquatilis</i> L.		F
RACA	<i>Ranunculus cardiophyllus</i> Hook.		F
RACI	<i>Ranunculus circinatus</i> Sibth.		F
RACY	<i>Ranunculus cymbalaria</i> Pursh		F
RAGL	<i>Ranunculus glaberrimus</i> Hook.		F
RAMA	<i>Ranunculus macounii</i> Britt.		F
RAMI	<i>Ranunculus micranthus</i> Nutt.		F
RAPE	<i>Ranunculus pensylvanicus</i> L.		F
RARH	<i>Ranunculus rhomboideus</i> Goldie		F
RASC	<i>Ranunculus sceleratus</i> L.		F
RATIB	<i>Ratibida</i> Raf.	COMPOS (HEL)	
RACO	<i>Ratibida columnifera</i> (Nutt.) Woot. & Standl.		F
RHAMN	<i>Rhamnus</i> L.	RHAMNA	
RHAL	<i>Rhamnus alnifolius</i> L'Her.		T
RHINA	<i>Rhinanthus</i> L.	SCROPH	
RHCR	<i>Rhinanthus crista-galli</i> L.		F
RHUS	<i>Rhus</i> L.	ANACAR	
RHGL	<i>Rhus glabra</i> L.		S
RHOS	<i>Rhus osterhoutii</i> Rydb.		S
RHTR	<i>Rhus trilobata</i> Nutt.		S
RIBES	<i>Ribes</i> L.	SAXIFR	
RIAM	<i>Ribes americanum</i> Mill.		S
RICE	<i>Ribes cereum</i> Dougl.		S
RIHI	<i>Ribes hirtellum</i> Michx.		S
RIHU	<i>Ribes hudsonianum</i> Richards.		S
RIIN	<i>Ribes inerme</i> Rydb.		S
RILA	<i>Ribes lacustre</i> (Pers.) Poir.		S
RIOD	<i>Ribes odoratum</i> Wendl.		S
RIOX	<i>Ribes oxyacanthoides</i> L.		S
RISE	<i>Ribes setosum</i> Lindl.		S
RORIP	<i>Rorippa</i> Scop.	CRUCIF	
ROIS	<i>Rorippa islandica</i> (Oeder) Borbas		F
ROSI	<i>Rorippa sinuata</i> (Nutt.) Hitchc.		F
ROSA	<i>Rosa</i> L.	ROSACE	
ROAC	<i>Rosa acicularis</i> Lindl.		S
ROBL	<i>Rosa blanda</i> Ait.		S
ROEN	<i>Rosa engelmannii</i> Watson		S
ROFE	<i>Rosa fendleri</i> Crep.		S
ROLU	<i>Rosa lunellii</i> Greene		S
ROPO	<i>Rosa polyanthema</i> Lunell		S
ROSU	<i>Rosa suffulta</i> Greene		S

<u>SYMBOL</u>	<u>GENERA - SPECIES - AUTHORITY</u>	<u>FAMILY</u>	<u>LIFE FORM</u>
RUBUS	<i>Rubus</i> L.	ROSACE	
RUPA	<i>Rubus parviflorus</i> Nutt.		S
RUPU	<i>Rubus pubescens</i> Raf.		S
RUST	<i>Rubus strigosus</i> Michx.		S
RUDBE	<i>Rudbeckia</i> L.	COMPOS (HEL)	
RUHI	<i>Rudbeckia hirta</i> L.		S
RULA	<i>Rudbeckia laciniata</i> L.		F
RUSE	<i>Rudbeckia serotina</i> Nutt.		F
RUMEX	<i>Rumex</i> L.	POLYGO	
RUAC	<i>Rumex acetosella</i> L.		F
RUAL	<i>Rumex altissimus</i> Wood		F
RUCR	<i>Rumex crispus</i> L.		F
RUFU	<i>Rumex fueginus</i> Philippi		F
RUME	<i>Rumex mexicanus</i> Meissn.		F
RUOC	<i>Rumex occidentalis</i> Wats.		F
RUOR	<i>Rumex orbiculatus</i> Gray		F
RUPA2	<i>Rumex patientia</i> L.		F
RUVE	<i>Rumex venosus</i> Pursh		F
SAGIN	<i>Sagina</i> L.	CARYOP	
SASA	<i>Sagina saginoides</i> (L.) Karst.		F
SAGIT	<i>Sagittaria</i> L.	ALISMA	
SACU	<i>Sagittaria cuneata</i> Sheld.		F
SAGR	<i>Sagittaria graminea</i> Michx.		F
SALA	<i>Sagittaria latifolia</i> Willd.		F
SAMO	<i>Sagittaria montevidensis</i> Cham. & Schlecht.		F
SALIX	<i>Salix</i> L.	SALICA	
SAAL	<i>Salix alba</i> L.		T
SAALV	<i>Salix alba</i> var. <i>vitellina</i> (L.) Stokes		T
SAAM	<i>Salix amygdaloides</i> Anderss.		T
SABE	<i>Salix bebbiana</i> Sarg.		T
SABEP	<i>Salix bebbiana</i> var. <i>perrostrata</i> (Rydb.) Schn.		T
SACA	<i>Salix candida</i> Fleugge		T
SACA2	<i>Salix caudata</i> (Nutt.) Heller		T
SACO	<i>Salix cordata</i> Michx.		T
SADI	<i>Salix discolor</i> Muhl.		T
SAEXL	<i>Salix exigua</i> var. <i>luteosericea</i> (Rydb.) Schn.		T
SAFR	<i>Salix fragilis</i> L.		T
SAGE	<i>Salix geyeriana</i> Anderss.		T
SAGLG	<i>Salix glauca</i> var. <i>glabrescens</i> (Anderss.) Schneider		T
SAIN	<i>Salix interior</i> Rowlee		T
SAINP	<i>Salix interior</i> var. <i>pedicellata</i> (And.) Ball		T
SALU	<i>Salix lucida</i> Muhl.		T
SALU2	<i>Salix lutea</i> Nutt.		T
SALUF	<i>Salix lutea</i> var. <i>famelica</i> Ball		T
SALUL	<i>Salix lutea</i> var. <i>ligulifolia</i> (Ball) E. C. Smith		T
SAPA	<i>Salix padophylla</i> Rydb.		T
SAPE	<i>Salix pellita</i> Anders.		T
SAPE2	<i>Salix pentandra</i> L.		T
SAPE3	<i>Salix petiolaris</i> J. E. Smith		T
SAPL	<i>Salix planifolia</i> Pursh		T
SAPLM	<i>Salix planifolia</i> var. <i>monica</i> (Bebb) Schn.		T
SAPLN	<i>Salix planifolia</i> var. <i>nelsonii</i> Ball		T
SAPR	<i>Salix prinooides</i> Pursh		T
SAPS	<i>Salix pseudolapporum</i> von Seeman		T

<u>SYMBOL</u>	<u>GENERA - SPECIES - AUTHORITY</u>	<u>FAMILY</u>	<u>LIFE FORM</u>
SAPS2	<i>Salix pseudomonticola</i> Ball		T
SASC	<i>Salix scouleriana</i> Barr.		T
SASE	<i>Salix serissima</i> (Bailey) Fern.		T
SASU	<i>Salix subcoerulea</i> Piper		T
SASU2	<i>Salix subsericea</i> (Anderss.) Schneider		T
SALSO	<i>Salsola</i> L.	CHENOP	
SAKA	<i>Salsola kali</i> L.		F
SALVI	<i>Salvia</i> L.	LABIAT	
SARE	<i>Salvia reflexa</i> Hornem.		F
SAMBU	<i>Sambucus</i> L.	CAPRIF	
SACA3	<i>Sambucus canadensis</i> L.		S
SAME	<i>Sambucus melanocarpa</i> Gray		S
SAPU	<i>Sambucus pubens</i> Michx.		S
SANGU	<i>Sanguinaria</i> L.	PAPAVE	
SACA4	<i>Sanguinaria canadensis</i> L.		F
SANIC	<i>Sanicula</i> L.	UMBELL	
SACA5	<i>Sanicula canadensis</i> L.		F
SAMA	<i>Sanicula marilandica</i> L.		F
SAPON	<i>Saponaria</i> L.	CARYOP	
SAOF	<i>Saponaria officinalis</i> L.		F
SARCO	<i>Sarcobatus</i> Nees.	CHENOP	
SAVE	<i>Sarcobatus vermiculatus</i> (Hook.) Torr.		S
SAXIF	<i>Saxifraga</i> L.	SAXIFR	
SACE	<i>Saxifraga cernua</i> L.		F
SAOC	<i>Saxifraga occidentalis</i> Wats.		F
SAVI	<i>Saxifraga virginiensis</i> Michx.		F
SCHED	<i>Schedonnardus</i> Steud.	GRAMIN (CHL)	
SCPA2	<i>Schedonnardus paniculatus</i> (Nutt.) Trel.		G
SCHIZ	<i>Schizachne</i> Hack.	GRAMIN (FES)	
SCPU	<i>Schizachne purpurascens</i> (Torr.) Swallen		G
SCIRP	<i>Scirpus</i> L.	CYPERA	
SCAM	<i>Scirpus americanus</i> Pers.		G
SCAT	<i>Scirpus atrovirens</i> Willd.		G
SCCY	<i>Scirpus cyperinus</i> (L.) Kunth		G
SCMA	<i>Scirpus maritimus</i> L.		G
SCPA	<i>Scirpus pallidus</i> (Britt.) Fern.		G
SCRU	<i>Scirpus rubrotinctus</i> Fern.		G
SCTO	<i>Scirpus torreyi</i> Olney		G
SCVA	<i>Scirpus validus</i> L.		G
SCROP	<i>Serophularia</i> L.	SCROPH	
SCLA	<i>Serophularia lanceolata</i> Pursh		F
SCMA	<i>Serophularia marilandica</i> L.		F
SCUTE	<i>Scutellaria</i> L.	LABIAT	
SCGA	<i>Scutellaria galericulata</i> L.		F
SCLA2	<i>Scutellaria lateriflora</i> L.		F
SECAL	<i>Secale</i> L.	GRAMIN (HOR)	
SECE	<i>Secale cereale</i> L.		G

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SEDUM	<i>Sedum</i> L.	CRASSU	
SEAC	<i>Sedum acre</i> L.		F
SEST	<i>Sedum stenopetalum</i> Pursh		F
SELAGI	<i>Selaginella</i> Beauv.	SELAGI	
SEDE	<i>Selaginella densa</i> Rydb.		L
SERU	<i>Selaginella rupestris</i> (L.) Spring.		L
SENEC	<i>Senecio</i> L.	COMPOS (SEN)	
SEAM	<i>Senecio ambrosioides</i> Rydb.		F
SEAU	<i>Senecio aureus</i> L.		F
SECA	<i>Senecio canus</i> Hook.		F
SECR	<i>Senecio crassulus</i> Gray		F
SEER	<i>Senecio eremophilus</i> Richards.		F
SEIN	<i>Senecio integrifolius</i> Nutt.		F
SELO	<i>Senecio longilobus</i> Benth.		F
SEMU	<i>Senecio mutabilis</i> Greene		F
SEPL	<i>Senecio plattensis</i> Nutt.		F
SEPU	<i>Senecio purshianus</i> Nutt.		F
SERA	<i>Senecio rapifolius</i> Nutt.		F
SESP	<i>Senecio spartioides</i> T. & G.		F
SEVU	<i>Senecio vulgaris</i> L.		F
SETAR	<i>Setaria</i> Beauv.	GRAMIN (PAN)	
SELU	<i>Setaria lutescens</i> (Wieg.) Hubb.		G
SEVE	<i>Setaria verticillata</i> (L.) Beauv.		G
SEVI	<i>Setaria viridis</i> (L.) Benth.		G
SHEPH	<i>Shepherdia</i> Nutt.	ELAEAG	
SHAR	<i>Shepherdia argentea</i> Nutt.		S
SHCA	<i>Shepherdia canadensis</i> (L.) Nutt.		S
SICYO	<i>Sicyos</i> L.	CUCURB	
SIAN	<i>Sicyos angulatus</i> L.		F
SILEN	<i>Silene</i> L.	CARYOP	
SIAC	<i>Silene acaulis</i> L.		F
SIAN2	<i>Silene antirrhina</i> L.		F
SINI	<i>Silene nivea</i> (Nutt.) Otth.		F
SINO	<i>Silene noctiflora</i> L.		F
SISYMP	<i>Sisymbrium</i> L.	CRUCIF	
SIAL	<i>Sisymbrium altissimum</i> L.		F
SIOF	<i>Sisymbrium officinale</i> (L.) Scop.		F
SISYR	<i>Sisyrinchium</i> L.	IRIDAC	
SIMO	<i>Sisyrinchium montanum</i> Greene		F
SIMU	<i>Sisyrinchium mucronatum</i> Michx.		F
SITAN	<i>Sitanion</i> Raf.	GRAMIN (HOR)	
SIHY	<i>Sitanion hystrix</i> (Nutt.) J. G. Smith		G
SIUM	<i>Sium</i> L.		F
SISU	<i>Sium suave</i> Walt.		F
SMILA	<i>Smilacina</i> Desf.	LILIAC	
SMRA	<i>Smilacina racemosa</i> (L.) Desf.		F
SMST	<i>Smilacina stellata</i> (L.) Desf.		F

<u>SYMBOL</u>	<u>GENERA - SPECIES - AUTHORITY</u>	<u>FAMILY</u>	<u>LIFE FORM</u>
SMILA2	<i>Smilax</i> L.	LILIAC	
SMHE	<i>Smilax herbacea</i> L.		F
SMHEL	<i>Smilax herbacea</i> var. <i>lasioneura</i> (Hook.) A. DC.		F
SOLAN	<i>Solanum</i> L.	SOLANA	
SONI	<i>Solanum nigrum</i> L.		F
SORO	<i>Solanum rostratum</i> Dunal		F
SOTR	<i>Solanum triflorum</i> Nutt.		F
SOLID	<i>Solidago</i> L.	COMPOS (AST)	
SOCA	<i>Solidago canadensis</i> L.		F
SODU	<i>Solidago dumetorum</i> Lunell		F
SOGI	<i>Solidago gigantea</i> Ait.		F
SOGR	<i>Solidago graminifolia</i> (L.) Salisb.		F
SOHI	<i>Solidago hispida</i> Muhl.		F
SOMI	<i>Solidago missouriensis</i> Nutt.		F
SOMO	<i>Solidago mollis</i> Bartl.		F
SONA	<i>Solidago nana</i> Nutt.		F
SONE	<i>Solidago nemoralis</i> Ait.		F
SOOC	<i>Solidago occidentalis</i> (Nutt.) T. & G.		F
SORI	<i>Solidago rigida</i> L.		F
SOSP	<i>Solidago sparsiflora</i> Gray		F
SOSP2	<i>Solidago speciosa</i> Nutt.		F
SONCH	<i>Sonchus</i> L.	COMPOS (CIC)	
SOAR	<i>Sonchus arvensis</i> L.		F
SOAS	<i>Sonchus asper</i> (L.) Hill		F
SOOL	<i>Sonchus oleraceus</i> L.		F
SOPHO	<i>Sophora</i> L.	FABACE	
SOSE	<i>Sophora sericea</i> Nutt.		F
SORBU	<i>Sorbus</i> L.	ROSACE	
SOSC	<i>Sorbus scopulina</i> Greene		T
SORG A	<i>Sorghastrum</i> Nash	GRAMIN (AND)	
SONU	<i>Sorghastrum nutans</i> (L.) Nash		G
SORGH	<i>Sorghum</i> Moench	GRAMIN (AND)	
SOSU	<i>Sorghum sudanense</i> (Piper) Stapf		G
SPARG	<i>Sparganium</i> L.	SPARGI	
SPAN	<i>Sparganium angustifolium</i> Michx.		F
SPCH	<i>Sparganium chlorocarpum</i> Rydb.		F
SPEU	<i>Sparganium eurycarpum</i> Engelm.		F
SPMU	<i>Sparganium multipedunculatum</i> (Morong) Rydb.		F
SPART	<i>Spartina</i> Schreb.	GRAMIN (CHL)	
SPPE	<i>Spartina pectinata</i> Link		G
SPECU	<i>Specularia</i> Fabr.	CAMPAN	
SPLE	<i>Specularia leptocarpa</i> (Nutt.) Gray		F
SPPE2	<i>Specularia perfoliata</i> (L.) DC.		F
SPHAE	<i>Sphaeralcea</i> St. Hil.	MALVAC	
SPCO	<i>Sphaeralcea coccinea</i> (Pursh) Rydb.		F
SPHEN	<i>Sphenopholis</i> Scribn.	GRAMIN (AVE)	
SPIN	<i>Sphenopholis intermedia</i> (Rydb.) Rydb.		G
SPOB	<i>Sphenopholis obtusata</i> (Michx.) Scribn.		G

<u>SYMBOL</u>	<u>GENERA - SPECIES - AUTHORITY</u>	<u>FAMILY</u>	<u>LIFE FORM</u>
SPIRA	<i>Spiraea</i> L.	ROSACE	
SPAL	<i>Spiraea alba</i> DuRoi		S
SPCA	<i>Spiraea caespitosa</i> Nutt.		S
SPDE	<i>Spiraea densiflora</i> Nutt.		S
SPLU	<i>Spiraea lucida</i> Dougl.		S
SPIRA2	<i>Spiranthes</i> Rich.	ORCHID	
SPRO	<i>Spiranthes romanzoffiana</i> Cham.		F
SPORO	<i>Sporobolus</i> R. Br.	GRAMIN (AGR)	
SPAI	<i>Sporobolus airoides</i> (Torr.) Torr.		G
SPAS	<i>Sporobolus asper</i> (Michx.) Kunth		G
SPCR	<i>Sporobolus cryptandrus</i> (Torr.) Gray		G
SPHE	<i>Sporobolus heterolepis</i> (Gray) Gray		G
SPNE	<i>Sporobolus neglectus</i> Nash		G
SPVA	<i>Sporobolus vaginiflorus</i> (Torr.) Wood		G
STACH	<i>Stachys</i> L.	LABIAT	
STHI	<i>Stachys hispida</i> Pursh		F
STPA	<i>Stachys palustris</i> L.		F
STANL	<i>Stanleya</i> Nutt.	CRUCIF	
STPI	<i>Stanleya pinnata</i> (Pursh) Britt.		F
STEIR	<i>Steirronema</i> Raf.	PRIMUL	
STCI	<i>Steirronema ciliatum</i> (L.) Raf.		F
STELL	<i>Stellaria</i> L.	CARYOP	
STLO	<i>Stellaria longifolia</i> Muhl.		F
STL02	<i>Stellaria longipes</i> Goldie		F
STME	<i>Stellaria media</i> (L.) Cyrill.		F
STUM	<i>Stellaria umbellata</i> Turcz.		F
STIPA	<i>Stipa</i> L.	GRAMIN (AGR)	
STCO	<i>Stipa columbiana</i> Macoun		G
STC02	<i>Stipa comata</i> Trin. & Rupr.		G
STRI	<i>Stipa richardsonii</i> Link		G
STRO	<i>Stipa robusta</i> (Vasey) Scribn.		G
STSP	<i>Stipa spartea</i> Trin.		G
STSPC	<i>Stipa spartea</i> var. <i>curtiseta</i> Hitchc.		G
STVI	<i>Stipa viridula</i> Trin.		G
STREP	<i>Streptopus</i> Michx.	LILIAC	
STAM	<i>Streptopus amplexifolius</i> (L.) DC.		F
SWERT	<i>Swertia</i> L.	GENTIA	
SWRA	<i>Swertia radicata</i> (Kellogg) Kuntze		F
SYMPH	<i>Syphoricarpos</i> Duham.	CAPRIF	
SYAL	<i>Syphoricarpos albus</i> (L.) Blake		S
SYOC	<i>Syphoricarpos occidentalis</i> Hook.		S
TALIU	<i>Talinum</i> Adans.	PORTUL	
TAPA	<i>Talinum parviflorum</i> Nutt.		F
TANAC	<i>Tanacetum</i> L.	COMPOS (ANT)	
TAVU	<i>Tanacetum vulgare</i> L.		F
TARAX	<i>Taraxacum</i> Zinn.	COMPOS (CIC)	
TALA	<i>Taraxacum laevigatum</i> (Willd.) DC.		F
TAOF	<i>Taraxacum officinale</i> Weber		F

<u>SYMBOL</u>	<u>GENERA - SPECIES - AUTHORITY</u>	<u>FAMILY</u>	<u>LIFE FORM</u>
TELES	<i>Telesonix</i> Raf.	SAXIFR	
TEHE	<i>Telesonix heucheriformis</i> Rydb.		F
THALI	<i>Thalictrum</i> L.	RANUNC	
THDA	<i>Thalictrum dasycarpum</i> Fisch. & Ave-Lall.		F
THDI	<i>Thalictrum diocium</i> L.		F
THME	<i>Thalictrum megacarpum</i> Torr.		F
THVE	<i>Thalictrum venulosum</i> Trelease		F
THELY	<i>Thelypodium</i> Endl.	CRUCIF	
THLI	<i>Thelypodium lilacinum</i> Greene		F
THELY2	<i>Thelypteris</i> Schmidel.	POLYPO	
THNO	<i>Thelypteris noveboracensis</i> (L.) Nieuwl.		L
THERM	<i>Thermopsis</i> R. Br.	FABACE	
THRH	<i>Thermopsis rhombifolia</i> (Nutt.) Richards.		F
THLAS	<i>Thlaspi</i> L.	CRUCIF	
THAR	<i>Thlaspi arvense</i> L.		F
TOWNS	<i>Townsendia</i> Hook.	COMPOS (AST)	
TOGR	<i>Townsendia grandiflora</i> Nutt.		F
TOSE	<i>Townsendia sericea</i> Hook.		F
TOXIC	<i>Toxicodendron</i> T. & S.	ANACAR	
TORA	<i>Toxicodendron radicans</i> (L.) Kuntze		S
TRADE	<i>Tradescantia</i> L.	COMMEL	
TRBR	<i>Tradescantia bracteata</i> Small		F
TROC	<i>Tradescantia occidentalis</i> (Britt.) Smyth		F
TRAGO	<i>Tragopogon</i> L.	COMPOS (CIC)	
TRDU	<i>Tragopogon dubius</i> Scop.		F
TRPO	<i>Tragopogon porrifolius</i> L.		F
TRPR3	<i>Tragopogon pratensis</i> L.		F
TRIFO	<i>Trifolium</i> L.	FABACE	
TRHY	<i>Trifolium hybridum</i> L.		F
TRIN	<i>Trifolium incarnatum</i> L.		F
TRPR	<i>Trifolium pratense</i> L.		F
TRPR2	<i>Trifolium procumbens</i> L.		F
TRRE	<i>Trifolium repens</i> L.		F
TRIGL	<i>Triglochin</i> L.	JUNCAG	
TRMA	<i>Triglochin maritima</i> L.		F
TRPA	<i>Triglochin palustris</i> L.		F
TRIPT	<i>Tripterocalyx</i> Hook.	NYCTAG	
TRMI	<i>Tripterocalyx micranthes</i> (Torr.) Hook.		F
TRITI	<i>Triticum</i> L.	GRAMIN (HOR)	
TRAЕ	<i>Triticum aestivum</i> L.		G
TYPHA	<i>Typha</i> L.	TYPHAC	
TYLA	<i>Typha latifolia</i> L.		F
ULMUS	<i>Ulmus</i> L.	ULMACE	
ULAM	<i>Ulmus americana</i> L.		T

<u>SYMBOL</u>	<u>GENERA - SPECIES - AUTHORITY</u>	<u>FAMILY</u>	<u>LIFE FORM</u>
URTIC	<i>Urtica</i> L.	URTICA	
URDI	<i>Urtica dioica</i> L.		F
URGR	<i>Urtica gracilenta</i> Greene		F
UTRIC	<i>Utricularia</i> L.	LENTIB	
UTIN	<i>Utricularia intermedia</i> Hayne		F
UTVU	<i>Utricularia vulgaris</i> L.		F
VACCA	<i>Vaccaria</i> Medic	CARYOP	
VASE	<i>Vaccaria segetalis</i> (Neck.) Garcke		F
VACCI	<i>Vaccinium</i> L.	ERICAC	
VAME	<i>Vaccinium membranaceum</i> Dougl.		S
VASC	<i>Vaccinium scoparium</i> Leiberg		S
VALER	<i>Valeriana</i> L.	VALERI	
VACA	<i>Valeriana capitata</i> Pallas ex Link		F
VACT	<i>Valeriana ciliata</i> T. & G.		F
VASE2	<i>Valeriana septentrionalis</i> Rydb.		F
VERBA	<i>Verbascum</i> L.	SCROPH	
VEBL	<i>Verbascum blattaria</i> L.		F
VETH	<i>Verbascum thapsus</i> L.		F
VERBE	<i>Verbena</i> L.	VERBEN	
VEAM	<i>Verbena ambrosifolia</i> Rydb.		F
VEBI	<i>Verbena bipinnatifida</i> Nutt.		F
VEBR	<i>Verbena bracteata</i> Lag. & Rodr.		F
VEHA	<i>Verbena hastata</i> L.		F
VEST	<i>Verbena stricta</i> Vent.		F
VEUR	<i>Verbena urticifolia</i> L.		F
VERNO	<i>Vernonia</i> Schreb.	COMPOS (VER)	
VEFA	<i>Vernonia fasciculata</i> Michx.		F
VERON	<i>Veronica</i> L.	SCROPH	
VEAM2	<i>Veronica americana</i> (Raf.) Schw.		F
VEAR	<i>Veronica arvensis</i> L.		F
VEPE	<i>Veronica peregrina</i> L.		F
VEPE2	<i>Veronica persica</i> Poir.		F
VESA	<i>Veronica salina</i> Schur.		F
VIBUR	<i>Viburnum</i> L.	CAPRIF	
VIED	<i>Viburnum edule</i> (Michx.) Raf.		S
VILE	<i>Viburnum lentago</i> L.		S
VITR	<i>Viburnum trilobum</i> Marsh.		S
VICIA	<i>Vicia</i> L.	FABACE	
VIAM	<i>Vicia americana</i> Muhl.		F
VICR	<i>Vicia cracca</i> L.		F
VISA	<i>Vicia sativa</i> L.		F
VIVI	<i>Vicia villosa</i> Roth		F
VIOLA	<i>Viola</i> L.	VIOLAC	
VIAD	<i>Viola adunca</i> Sm.		F
VICA	<i>Viola canadensis</i> L.		F
VICAR	<i>Viola canadensis</i> var. <i>rydbergii</i> (Greene) House		F
VIER	<i>Viola eriocarpa</i> Schw.		F
VIMI	<i>Viola missouriensis</i> Greene		F
VINE	<i>Viola nephrophylla</i> Greene		F

<u>SYMBOL</u>	<u>GENERA - SPECIES - AUTHORITY</u>	<u>FAMILY</u>	<u>LIFE FORM</u>
VINU	<i>Viola nuttallii</i> Pursh		F
VIPA	<i>Viola pallens</i> (Banks) Brainerd		F
VIPA2	<i>Viola palustris</i> L.		F
VIPA3	<i>Viola papilionacea</i> Pursh		F
VIPE	<i>Viola pedatifida</i> G. Don		F
VIPU	<i>Viola pubescens</i> Ait.		F
VIRE	<i>Viola renifolia</i> Gray		F
VIRU	<i>Viola rugulosa</i> Greene		F
VISE	<i>Viola selkirkii</i> Pursh		F
VISO	<i>Viola sororia</i> Willd.		F
VITIS	<i>Vitis</i> L.	VITACA	
VIVU	<i>Vitis vulpina</i> L.		S
WOODS	<i>Woodsia</i> R. Br.	POLYPO	
WOOR	<i>Woodsia oregana</i> D. C. Eat.		L
WOSC	<i>Woodsia scopulina</i> D. C. Eat.		L
XANTH	<i>Xanthium</i> L.	COMPOS (HEL)	
XAEC	<i>Xanthium echinatum</i> Murr.		F
XATT	<i>Xanthium italicum</i> Moretti		F
XAST	<i>Xanthium strumarium</i> L.		F
YUCCA	<i>Yucca</i> L.	LILIAC	
YUGL	<i>Yucca glauca</i> Nutt.		S
ZANNI	<i>Zannichellia</i> L.	NAJADA	
ZAPA	<i>Zannichellia palustris</i> L.		F
ZEA	<i>Zea</i> L.	GRAMIN (TRI)	
ZEMA	<i>Zea mays</i> L.		G
ZIZIA	<i>Zizia</i> Koch	UMBELL	
ZIAP	<i>Zizia aptera</i> (Gray) Fern.		F
ZIAU	<i>Zizia aurea</i> (L.) Koch		F
ZYGAD	<i>Zygadenus</i> Michx.	LILIAC	
ZYAC	<i>Zygadenus acutus</i> Rydb.		F
ZYEL	<i>Zygadenus elegans</i> Pursh		F
ZYGR	<i>Zygadenus gramineus</i> Rydb.		F



Thilenius, John F.

1971. Vascular plants of the Black Hills of South Dakota and adjacent Wyoming. USDA Forest Serv. Res. Pap. RM-71, 43 p. Rocky Mountain Forest and Range Experiment Station, Fort Collins, Colorado 80521.

This checklist gives the scientific name and botanical authority, the plant family (and tribe for Gramineae and Compositae), an alphabetical symbol adapted for computer coding, and a life-form designation for 1,759 plant taxa of the Black Hills of South Dakota and Wyoming. Listing is alphabetical: by genera, by species within genera, and by variety or subspecies within species. A discussion of the environment and vegetation types of the Black Hills is included.

KEY WORDS: Vascular system (plants), vegetation

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